

SPECIAL NOTES

THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF ANY OF THESE NOTES AND THE CITY WILL NOT BE HELD RESPONSIBLE FOR THEIR ENFORCEMENT.

1. THE CONTRACTOR SHALL ENFORCE ALL SAFETY MEASURES. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS.
2. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MONUMENTATION AND/OR BENCHMARKS WHICH WILL BE DISTURBED OR DESTROYED BY CONSTRUCTION, SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENTATION BY A LICENSED LAND SURVEYOR OR A REGISTERED CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED BY THE LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER AS REQUIRED BY THE LAND SURVEYOR'S ACT.
4. IF THERE IS ANY QUESTION REGARDING THESE PLANS OR FIELD STAKES, THE CONTRACTOR SHALL REQUEST AN INTERPRETATION BEFORE DOING ANY WORK BY CALLING THE RESIDENT ENGINEER. THE CONTRACTOR SHALL ALSO TAKE THE NECESSARY STEPS TO PROTECT THE PROJECT AND ADJACENT PROPERTY FROM ANY EROSION AND SILTATION THAT RESULT FROM HIS OPERATIONS BY APPROPRIATE MEANS (SAND BAGS, HAY BALES, TEMPORARY DESILTING BASINS, DIKES, SHORING, ETC.) UNTIL SUCH TIME THAT THE PROJECT IS COMPLETED.
5. LOCATION AND ELEVATION OF IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK.
6. THE CONTRACTOR SHALL MAINTAIN A LEVEL OF SECURITY TO PRIVATE PROPERTIES COMPARABLE TO EXISTING CONDITIONS WHEN THE WORK HAS REMOVED EXISTING SECURITY MEASURES (E.G., FENCING).
7. UPON COMPLETION OF EACH DAY'S WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING THE WORK AREA FREE OF HAZARDS, AND SHALL PROVIDE NECESSARY TEMPORARY SIGNS, WARNING DEVICES, AND BARRICADES.
8. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER OF ANY BID ITEM QUANTITIES THAT EXCEEDS 5% OF THE CONTRACT QUANTITY BEFORE PERFORMING THE WORK.
9. THE WORKING HOURS FOR INSPECTION IS 7:00 AM TO 3:30 PM, MONDAY-FRIDAY. IF INSPECTION IS REQUIRED BEYOND THIS TIME FRAME, A REQUEST SHALL BE SUBMITTED 48 HOURS IN ADVANCE.

WATER POLLUTION CONTROL NOTES

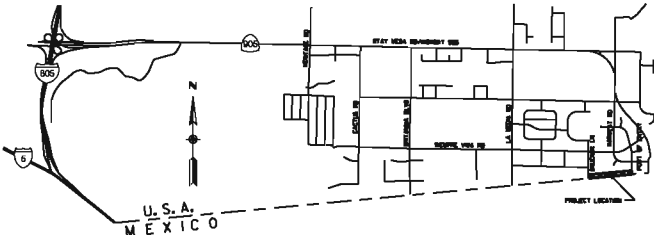
1. THE CONTRACTOR SHALL TAKE THE NECESSARY STEPS TO PROTECT ADJACENT PROPERTY FROM ANY EROSION AND SILTATION THAT RESULTS FROM HIS OPERATIONS BY APPROPRIATE MEANS (GRAVEL BAGS, DIKES, ETC.) UNTIL SUCH TIME THAT THE PROJECT IS COMPLETE AND ACCEPTED FOR MAINTENANCE BY THE CITY.
2. THE CONTRACTOR IS TO PROVIDE PILE PROTECTION, STREET SWEEPING, STORAGE/STAGING AREA PROTECTION, POLLUTION CONTROL MEASURES FOR EQUIPMENT MAINTENANCE, FUELING, CLEANING AND STORAGE AND TEMPORARY CONCRETE WASH OUT AREA.
3. FOR DETAILS ON WATER POLLUTION CONTROL SITE MANAGEMENT, SEE CALTRANS MANUALS: 'THE CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMP) MANUAL' AND 'STORM WATER POLLUTION PREVENTION PLAN (SWPPP)' AND WATER POLLUTION CONTROL PROGRAM (WPCP) PREPARATION MANUAL.

ABBREVIATIONS

| | | | |
|----------|-----------------------------|-----------|--------------------------------|
| ABAN | ABANDON | EVC | END OF VERTICAL CURVE |
| ABANO | ABANDONED | VIF | VERIFY IN FIELD |
| AC, ASPH | ASPHALT CONCRETE | EX, EXIST | EXISTING |
| BC | BEGINNING OF CURVE | G | GRADE |
| BVC | BEGINNING OF VERTICAL CURVE | LT | LEFT |
| | | PVC | POLYVINYL CHLORIDE |
| CIP | CAST IRON PIPE | PVI | POINT OF VERTICAL INTERSECTION |
| CIPCP | CAST IN PLACE CONCRETE PIPE | PVMT | PAVEMENT |
| | | RT | RIGHT |
| CL | CENTERLINE | STA | STATION |
| CTB | CEMENT TREATED BASE | TOF | TOP OF FOOTING |
| EC | END OF CURVE | TOW | TOP OF WALL |
| EOP | EDGE OF PAVEMENT | TYP | TYPICAL |

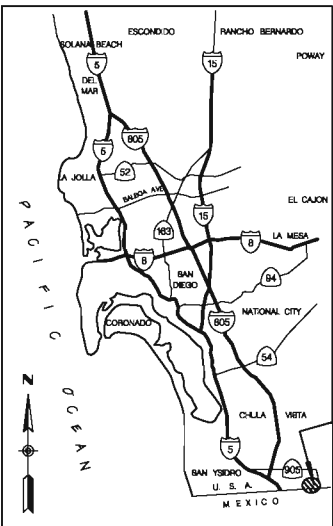
CITY OF SAN DIEGO
PROJECT PLANS FOR THE CONSTRUCTION OF
OTAY TRUCK ROUTE WIDENING
PHASE 3

FEDERAL AID PROJECT NO. DEMO5L 5004(170)



LOCATION MAP

N.T.S.



VICINITY MAP

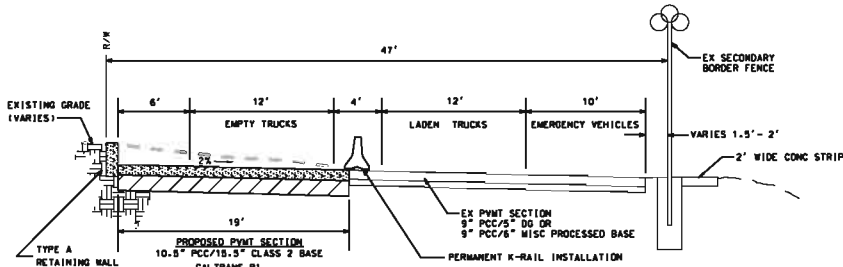
NO SCALE

SHEET INDEX

| SHEET # | DESCRIPTION |
|---------|--|
| 1 | TITLE SHEET |
| 2 | STATION 0+00 TO STATION 6+00 |
| 3 | STATION 6+00 TO STATION 12+00 |
| 4 | STATION 12+00 TO STATION 18+00 |
| 5 | STATION 18+00 TO STATION 24+00 |
| 6 | STATION 24+00 TO STATION 27+24 |
| 7 | TYPICAL SECTIONS AND PROFILES |
| 8 | SECURITY SWING GATE DETAILS |
| 9 | PIPE BRIDGE & SECURITY GATE DETAILS |
| 10 | SECURITY FENCE RELOCATION DETAILS |
| 11 - 12 | SIGNING AND STRIPING |
| 1 - 4 | TRAFFIC CONTROL AND CONSTRUCTION PHASING |

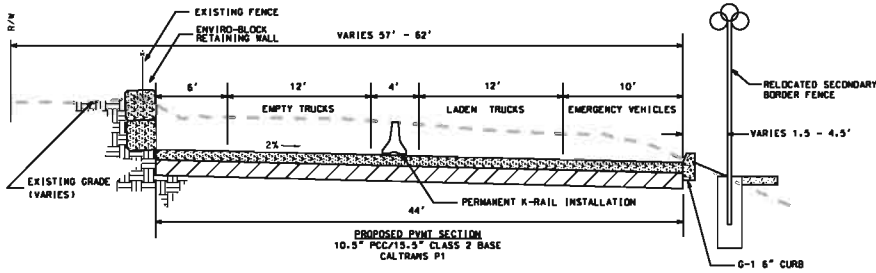
REFERENCE DRAWINGS

23630-D, 'CUSTOMHOUSE COURT & 150' BORDER CORRIDOR'
27316-D, 'OTAY MESA TRUCK ROUTE'
30262-D, 'SOUTHBOUND TRUCK ROUTE'



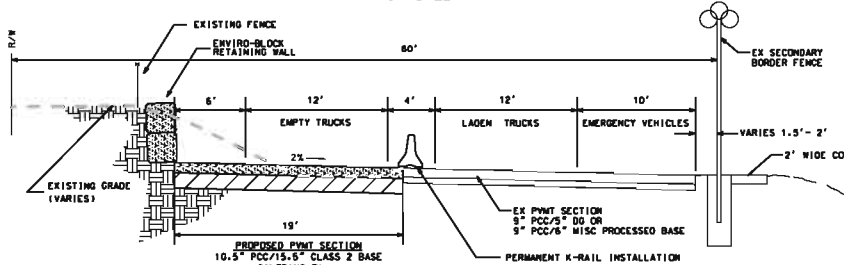
PROPOSED TYPICAL CROSS SECTION

STA 0+00.00 TO 12+06
NO SCALE



PROPOSED TYPICAL CROSS SECTION

STA 12+06 TO 15+52
NO SCALE



PROPOSED TYPICAL CROSS SECTION

STA 15+52 TO 25+60
NO SCALE

SURVEY REFERENCES

MAP 11163, 11612, 12488, 12659, P.M. 15289
R.O.S. 8920, 13376, 16826, 17171
DWG. 18253-B, 27284-D

BENCHMARK

*22 SBP CUSTOM HOUSE COURT & CUSTOM HOUSE PLAZA
ELEV. 508.920
*23 NWBP OTAY CENTER ROAD & CUSTOM HOUSE PLAZA,
ELEV. 514.191
DATUM: NVG029 FEET

WORK TO BE DONE

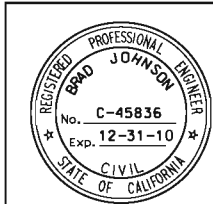
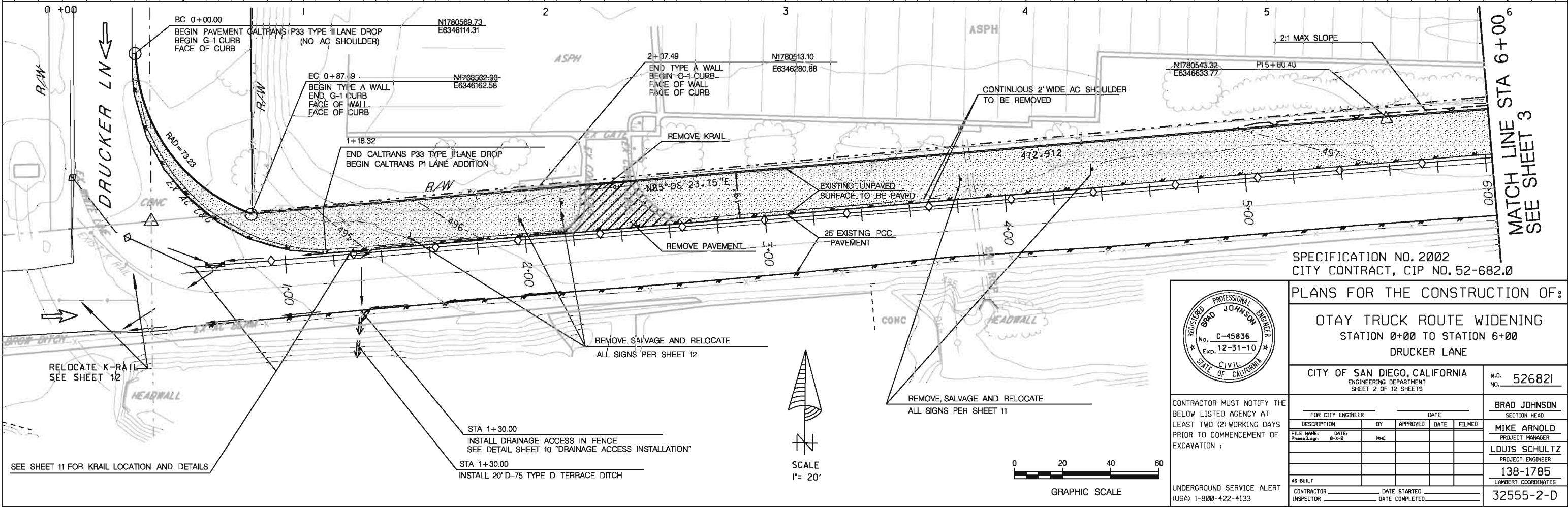
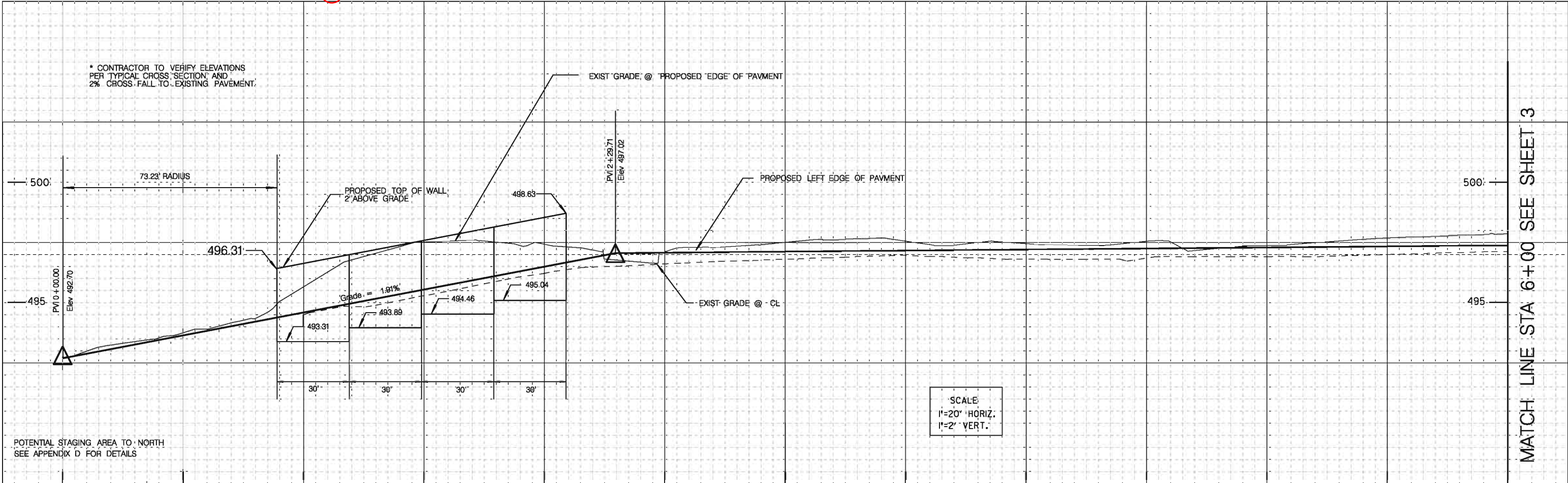
THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS AND THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO.

LEGEND

| IMPROVEMENT | STANDARD DRAWING | SYMBOL |
|---|---|--------|
| PCC PAVEMENT & CLASS 2 BASE | CALTRANS P1 CALTRANS P12 CALTRANS P17 CALTRANS P18 CALTRANS P20 CALTRANS P30 CALTRANS P33 | |
| PIPE PROTECTION SLAB & MID BLOCK CROSSING | - | |
| DEMO PAVEMENT | - | |
| ENVIRONMENTAL AREA | - | |
| BORDER FENCE | RELOCATED | |
| RETAINING WALL (TYPE-A) | C-9 | |
| RETAINING WALL (ENVIRO-BLOCK) | - | |
| K - RAIL | - | |
| ADIEM CRASH CUSHION | - | |
| (6') CURB | G-1 | |
| SILT FENCE | CALTRANS SE-1 | |
| DIRECTION OF SURFACE FLOW | - | |
| EXISTING IMPROVEMENTS | | |
| TREE/SHRUB | | |
| STORM DRAIN | | |
| HEADWALL | | |
| K-RAIL | | |
| SIGN | | |
| LIGHT POLE | | |
| GUARD RAIL | | |
| FENCE | | |
| EDGE OF PAVEMENT | | |

SPECIFICATION NO. 4104
CITY CONTRACT, CIP NO. 52-682.0

| | | | |
|---|-------------|---|------|
| | | PLANS FOR THE CONSTRUCTION OF: | |
| | | OTAY TRUCK ROUTE WIDENING FROM DRUCKER LANE TO THE POINT OF ENTRY | |
| CITY OF SAN DIEGO, CALIFORNIA ENGINEERING DEPARTMENT SHEET 1 OF 12 SHEETS | | W.O. NO. 526821 | |
| CONTRACTOR MUST NOTIFY THE BELOW LISTED AGENCY AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION: | | BRAD JOHNSON SECTION HEAD | |
| FOR CITY ENGINEER | | DATE | |
| DESCRIPTION | BY | APPROVED | DATE |
| FILE NAME: Phase 3.dgn | DATE: 8-1-9 | WAC | |
| | | MIKE ARNOLD PROJECT MANAGER | |
| | | LOUIS SCHULTZ PROJECT ENGINEER | |
| | | 138-1785 LAMBERT COORDINATES | |
| AS-BUILT | | | |
| CONTRACTOR | | DATE STARTED | |
| INSPECTOR | | DATE COMPLETED | |
| UNDERGROUND SERVICE ALERT (USA) 1-800-422-4133 | | 32555-1-D | |



CONTRACTOR MUST NOTIFY THE BELOW LISTED AGENCY AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION :

UNDERGROUND SERVICE ALERT (USA) 1-800-422-4133

SPECIFICATION NO. 2002
CITY CONTRACT, CIP NO. 52-682.0

PLANS FOR THE CONSTRUCTION OF:

OTAY TRUCK ROUTE WIDENING
STATION 0+00 TO STATION 6+00
DRUCKER LANE

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING DEPARTMENT
SHEET 2 OF 12 SHEETS

| | | | | | |
|------------------------|-------------|----------------|------|--------|--|
| FOR CITY ENGINEER | | DATE | | BY | |
| DESCRIPTION | BY | APPROVED | DATE | FILMED | |
| FILE NAME: Phase 3.dgn | DATE: 8-1-9 | MHC | | | |
| AS-BUILT | | | | | |
| CONTRACTOR | | DATE STARTED | | | |
| INSPECTOR | | DATE COMPLETED | | | |

W.O. NO. 526821

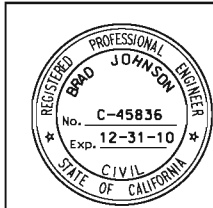
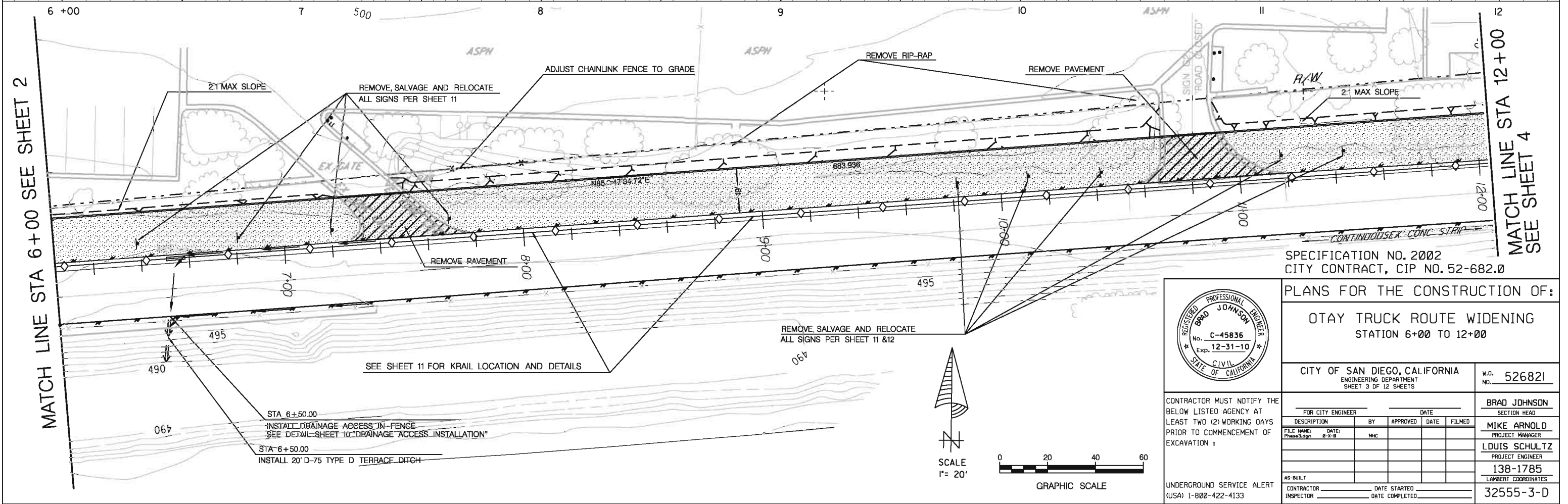
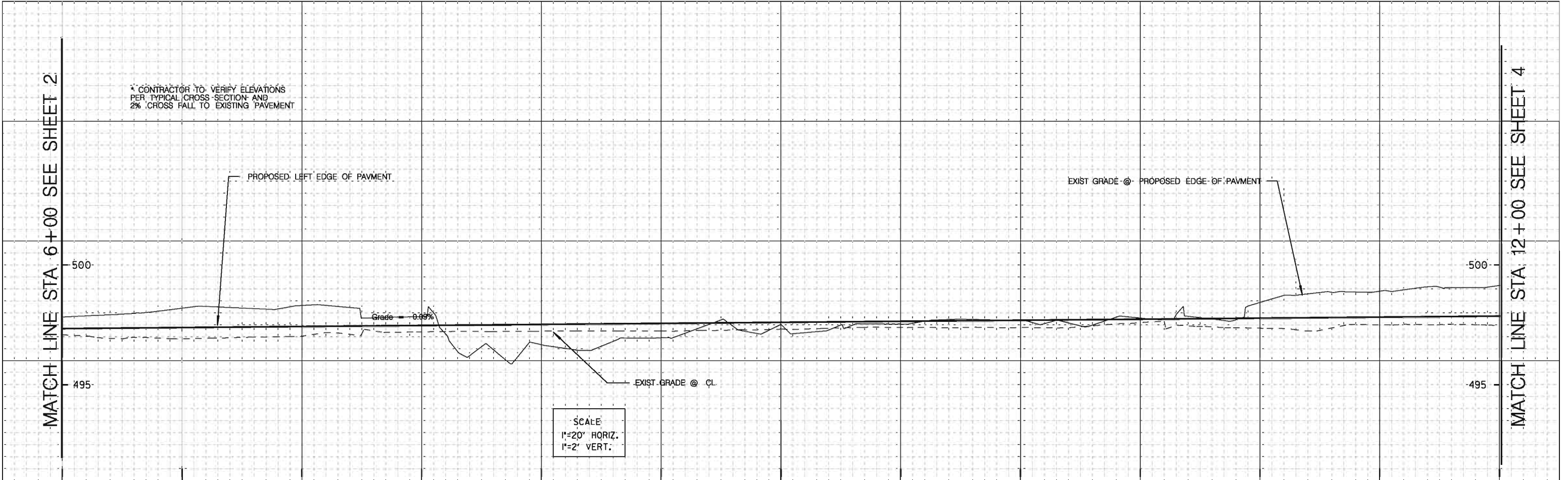
BRAD JOHNSON
SECTION HEAD

MIKE ARNOLD
PROJECT MANAGER

LOUIS SCHULTZ
PROJECT ENGINEER

138-1785
LAMBERT COORDINATES

32555-2-D



CONTRACTOR MUST NOTIFY THE BELOW LISTED AGENCY AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION :

UNDERGROUND SERVICE ALERT (USA) 1-800-422-4133

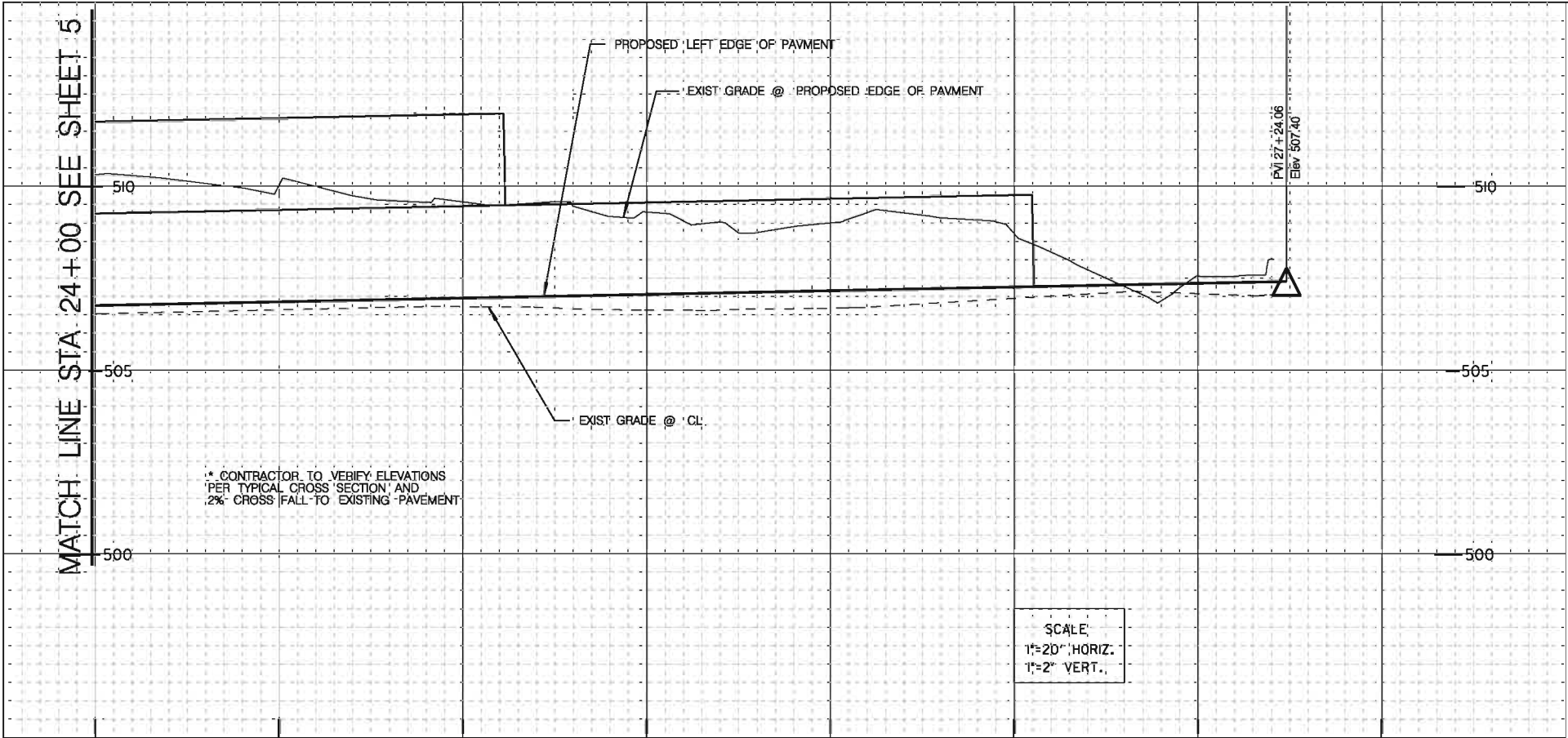
SPECIFICATION NO. 2002
CITY CONTRACT, CIP NO. 52-682.0

PLANS FOR THE CONSTRUCTION OF:

OTAY TRUCK ROUTE WIDENING
STATION 6+00 TO 12+00

| | | | | |
|---|-------------|----------------|------|-----------------------------------|
| CITY OF SAN DIEGO, CALIFORNIA ENGINEERING DEPARTMENT SHEET 3 OF 12 SHEETS | | | | W.O. NO. 526821 |
| FOR CITY ENGINEER | | | | BRAD JOHNSON SECTION HEAD |
| DESCRIPTION | BY | APPROVED | DATE | FILMED |
| FILE NAME: Phase 3.dgn | DATE: 8-1-8 | MHC | | |
| | | | | MIKE ARNOLD PROJECT MANAGER |
| | | | | LOUIS SCHULTZ PROJECT ENGINEER |
| | | | | 138-1785 |
| | | | | LAMBERT COORDINATES |
| AS-BUILT | | | | 32555-3-D |
| CONTRACTOR | | DATE STARTED | | |
| INSPECTOR | | DATE COMPLETED | | |

OTAY TRUCK ROUTE



HORIZONTAL ALIGNMENT REPORT

North edge of pavement

| Bearing | Distance | Type | Northing (Y) | Easting (X) |
|------------------|---------------------|---------------|---------------|--------------|
| | | PC | 1780569.7254 | 6346114.3093 |
| | Delta: 68°27'18.27" | | | |
| | Radius: -73.2255 | | | |
| | Arc: 87.4873 | | | |
| | Chord: 82.3758 | | | |
| | Tangent: 49.8154 | | | |
| S 88°21'13.27" W | = Radial In | | | |
| | | Radius Point: | CC 80571.8291 | 6346187.5045 |
| S 19°53'55.00" W | = Radial Out | | | |
| N 85°06'23.75" E | 472.9139 | PT | 1780502.9755 | 6346162.5818 |
| N 85°47'04.72" E | 683.9355 | PI | 1780543.3160 | 6346633.7719 |
| N 82°17'24.50" E | 148.1427 | PI | 1780593.5890 | 6347315.8572 |
| N 85°23'42.90" E | 100.1586 | PI | 1780621.4634 | 6347462.6607 |
| N 84°52'24.91" E | 1110.6482 | PI | 1780621.5043 | 6347562.4960 |
| N 76°44'09.60" E | 117.4080 | PI | 1780720.7445 | 6348668.7016 |
| | | POE | 1780747.6824 | 6348782.9775 |

BORDER PATROL AND U.S. CUSTOMS COORDINATION NOTES

- PROPERTY WEST OF THE RW LINE AT THE END OF THE TRUCK ROUTE IS PROPERTY OF U.S. CUSTOMS AND BORDER PROTECTION. CONTRACTOR SHALL:
 - COORDINATE WITH U.S. CUSTOMS TO ENSURE THAT ALL EMPLOYEES WHO WORK ON CUSTOMS PROPERTY ARE PROPERLY BADGED.
 - COORDINATE WITH U.S. CUSTOMS TO GAIN ACCESS TO VEHICLE GATES AT END OF TRUCK ROUTE AND AT CUSTOMS HOUSE PLAZA TO ALLOW FOR MATERIAL TRUCKING.
 - GIVE U.S. CUSTOMS AND CITY R.E. TWO WEEKS NOTICE BEFORE ANY WORK OR TRUCKING TAKES PLACE ON GOVERNMENT PROPERTY.
 - CONTRACTOR TO COORDINATE WITH THE ONSITE GSA PERSONNEL TO CUT POWER TO SECURITY BOOTH. ELECTRICAL CONDUIT TO BE REMOVED TO 6" BELOW PAVEMENT. GSA CONTACT PERSONNEL: TIM CASHMAN (619) 557-6516
- PROPERTY SOUTH OF THE SECONDARY FENCE IS PROPERTY OF THE U.S. BORDER PATROL CUSTOMS AND BORDER PROTECTION. CONTRACTOR SHALL:
 - ENSURE THAT CONTRACTOR EMPLOYEES ARE WEARING COMPANY CLOTHING THAT ALLOW FOR EASY IDENTIFICATION FOR BORDER ENFORCEMENT OFFICERS.
 - COORDINATE CLOSELY WITH U.S. BORDER PATROL AND R.E. TO GAIN ACCESS TO AREA SOUTH OF GATE.
 - GIVE U.S. BORDER PATROL AND R.E. TWO WEEKS NOTICE BEFORE BEGINNING WORK ON SECONDARY BORDER FENCE AND GATE TO ALLOW FOR BORDER PATROL TO REMOVE MOTOR, CONTROLLER, AND CUT POWER TO SLIDING GATE.
 - ENSURE THAT TEMPORARY SECURITY GATE IS INSTALLED AND SECURED BEFORE WORK BEGINS ON RELOCATION OF SECONDARY BORDER FENCE.

NOTE: SEE APPENDIX C OF CONTRACT OF CONTRACT SPECIFICATIONS FOR PHOTO OF BOOTH.

SPECIFICATION NO. 2002
CITY CONTRACT, CIP NO. 52-682.0

PLANS FOR THE CONSTRUCTION OF:

OTAY TRUCK ROUTE WIDENING
STATION 24+00 TO STATION 27+24
THE POINT OF ENTRY

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING DEPARTMENT
SHEET 6 OF 12 SHEETS

W.D. NO. 526821



CONTRACTOR MUST NOTIFY THE BELOW LISTED AGENCY AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION :

UNDERGROUND SERVICE ALERT
(USA) 1-800-422-4133

| FOR CITY ENGINEER | | DATE | |
|------------------------|----------------|----------|-------|
| DESCRIPTION | BY | APPROVED | FILED |
| FILE NAME: Phase 3.dgn | DATE: 8-2-08 | MHC | |
| | | | |
| | | | |
| AS-BUILT | | | |
| CONTRACTOR | DATE STARTED | | |
| INSPECTOR | DATE COMPLETED | | |

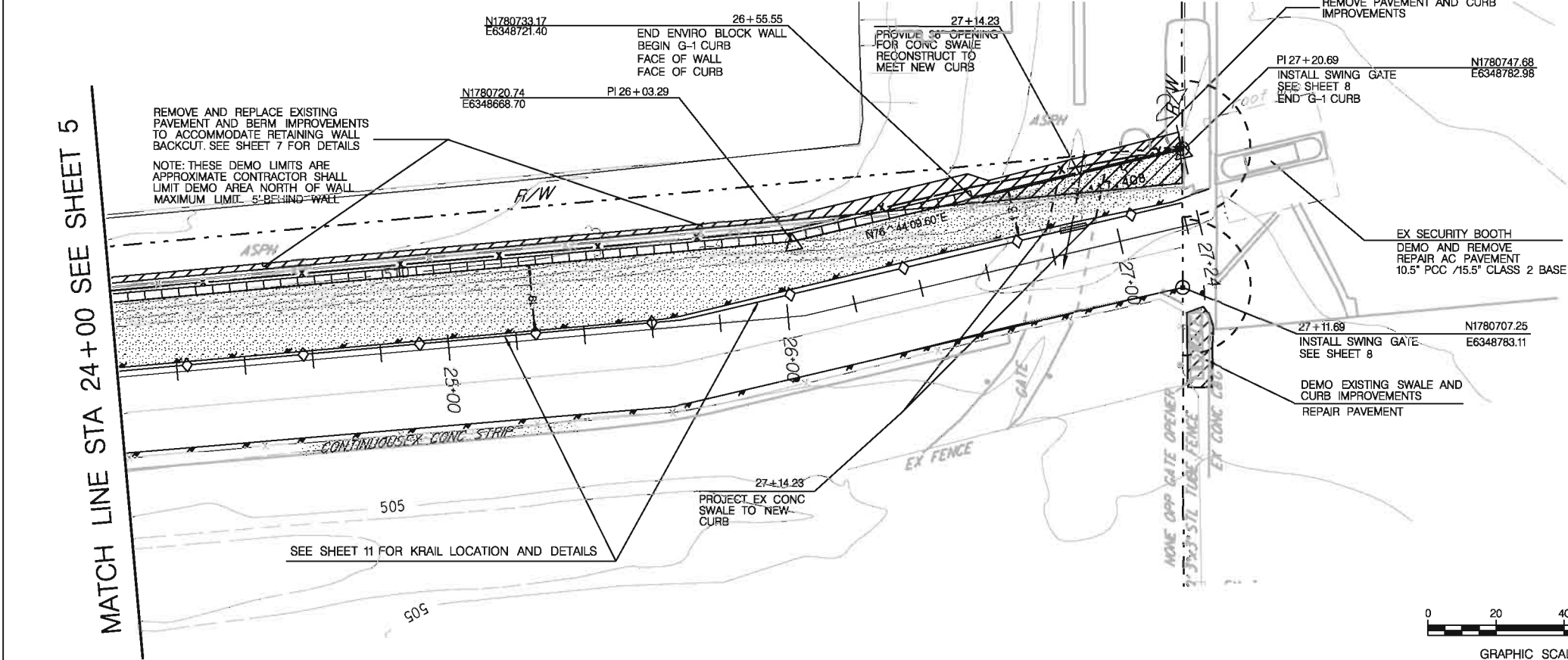
BRAD JOHNSON
SECTION HEAD

MIKE ARNOLD
PROJECT MANAGER

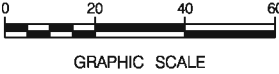
LOUIS SCHULTZ
PROJECT ENGINEER

138-1785
LAMBERT COORDINATES

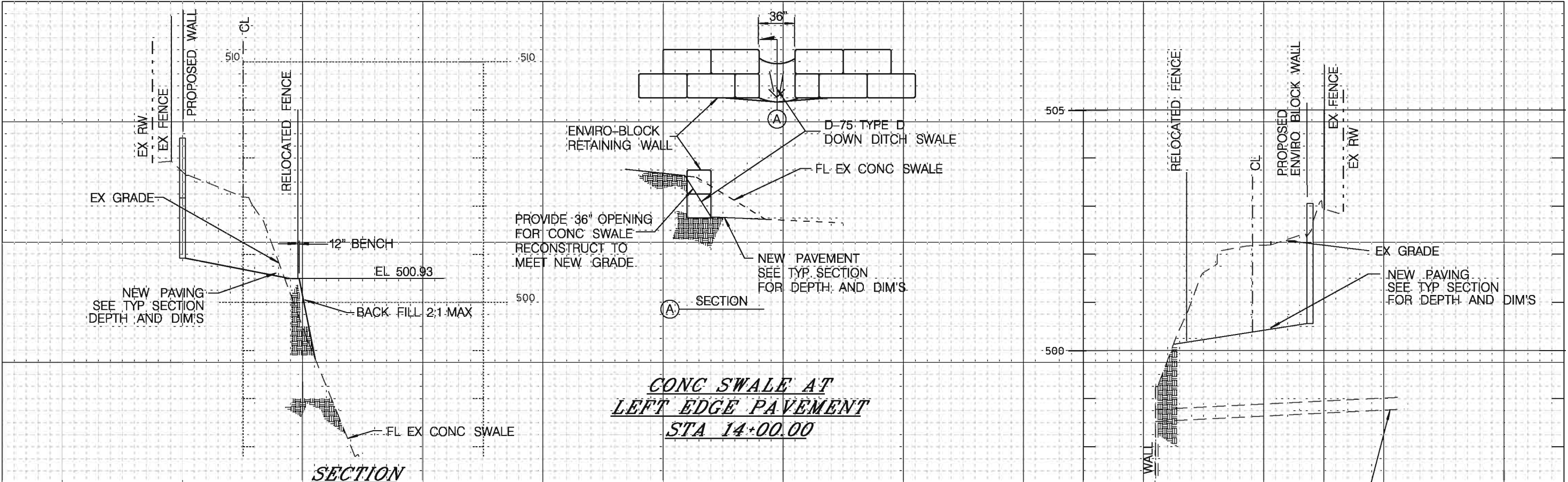
32555-6-D



SCALE
1"= 20'

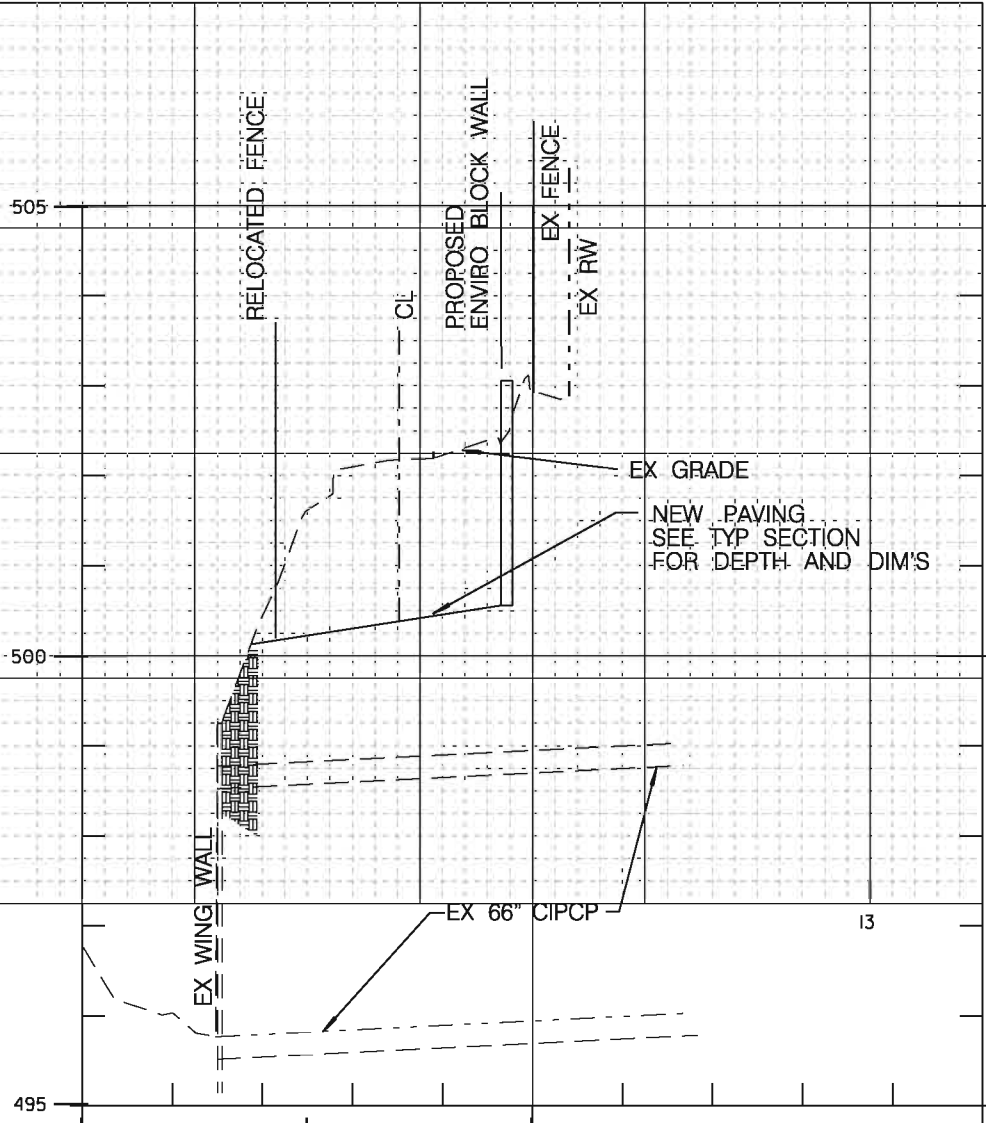


OTAY TRUCK ROUTE

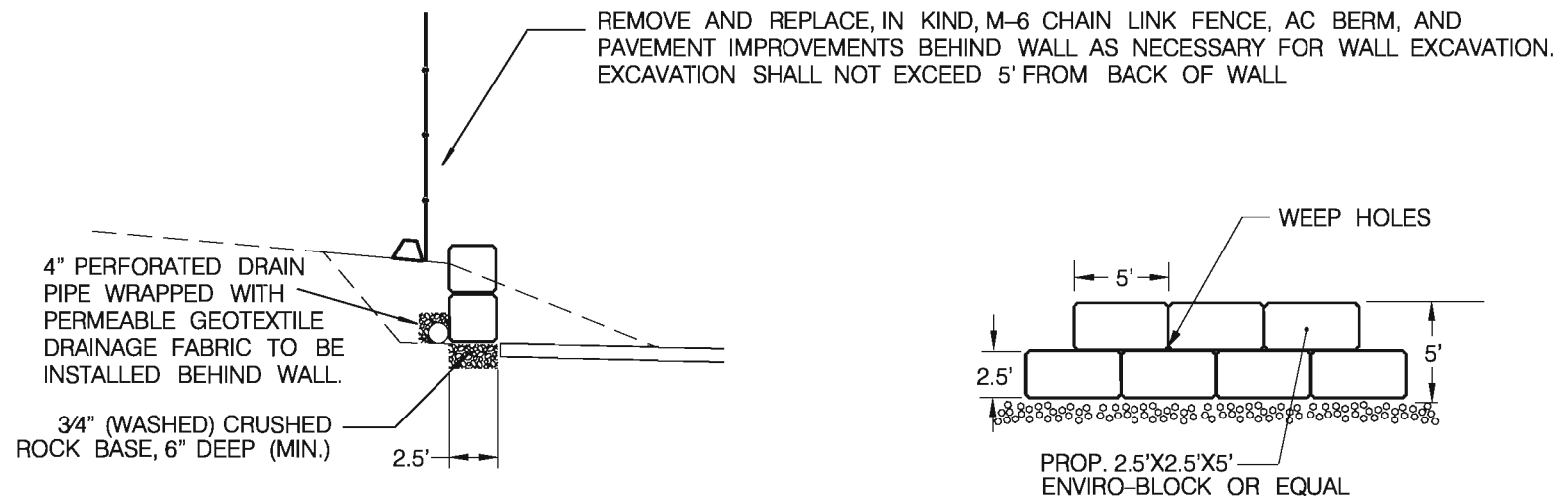


**CONC SWALE AT
LEFT EDGE PAVEMENT
STA 14+00.00**

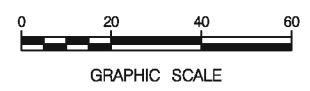
**SECTION
@ PROPOSED
DRAIN INLET
STA 14+00.00**



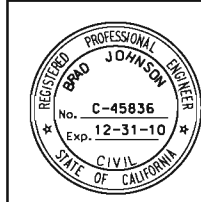
**SECTION
@ 66" CIPCP
STA 13+80**



TYPICAL SECTION AND WALL ELEVATION



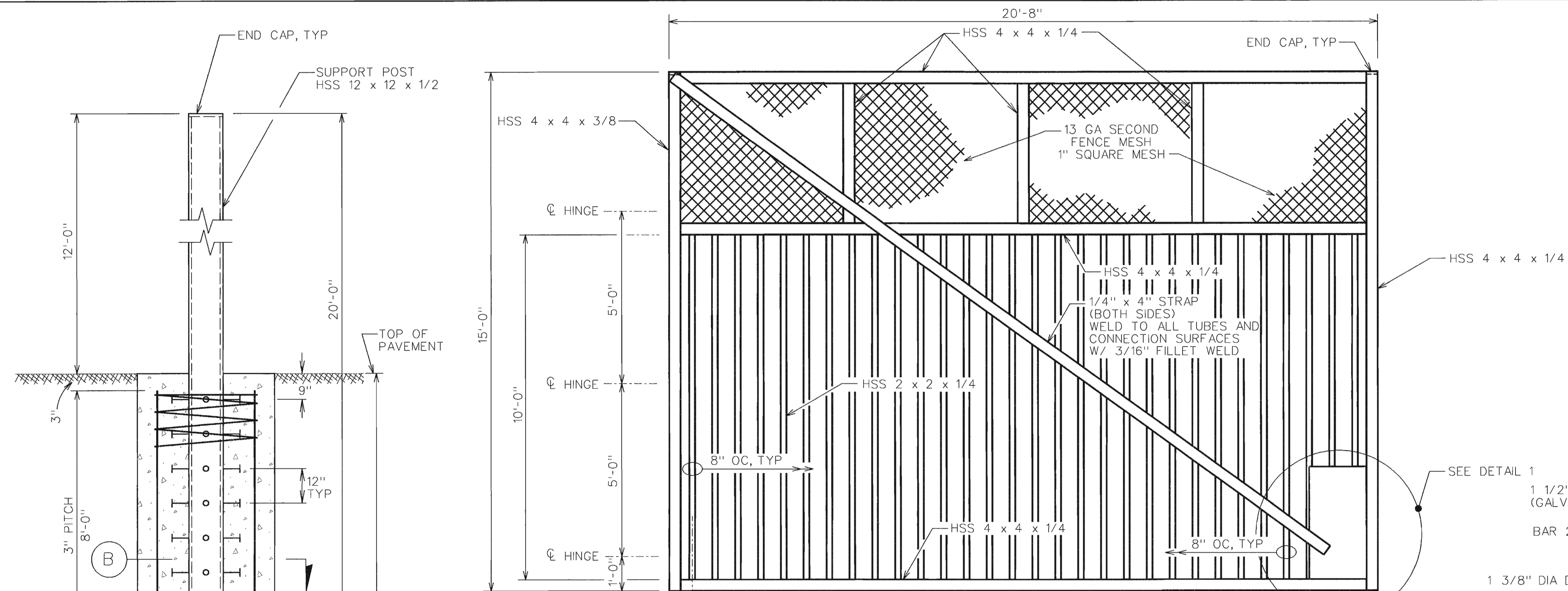
SPECIFICATION NO. 2002
CITY CONTRACT, CIP NO. 52-682.0



CONTRACTOR MUST NOTIFY THE
BELOW LISTED AGENCY AT
LEAST TWO (2) WORKING DAYS
PRIOR TO COMMENCEMENT OF
EXCAVATION :

UNDERGROUND SERVICE ALERT
(USA) 1-800-422-4133

| PLANS FOR THE CONSTRUCTION OF: | | | | |
|---|-------------|----------|------|-----------------------------------|
| OTAY TRUCK ROUTE WIDENING FROM DRUCKER LANE TO THE POINT OF ENTRY PROFILES AND SECTIONS | | | | |
| CITY OF SAN DIEGO, CALIFORNIA ENGINEERING DEPARTMENT SHEET 7 OF 12 SHEETS | | | | W.D. NO. 526821 |
| FOR CITY ENGINEER | | | | BRAD JOHNSON SECTION HEAD |
| DESCRIPTION | BY | APPROVED | DATE | FILMED |
| FILE NAME: Phase 3.dwg | DATE: 8-2-8 | MHC | | |
| AS-BUILT | | | | LOUIS SCHULTZ PROJECT ENGINEER |
| CONTRACTOR | | | | 138-1785 LAMBERT COORDINATES |
| INSPECTOR | | | | 32555-7-D |

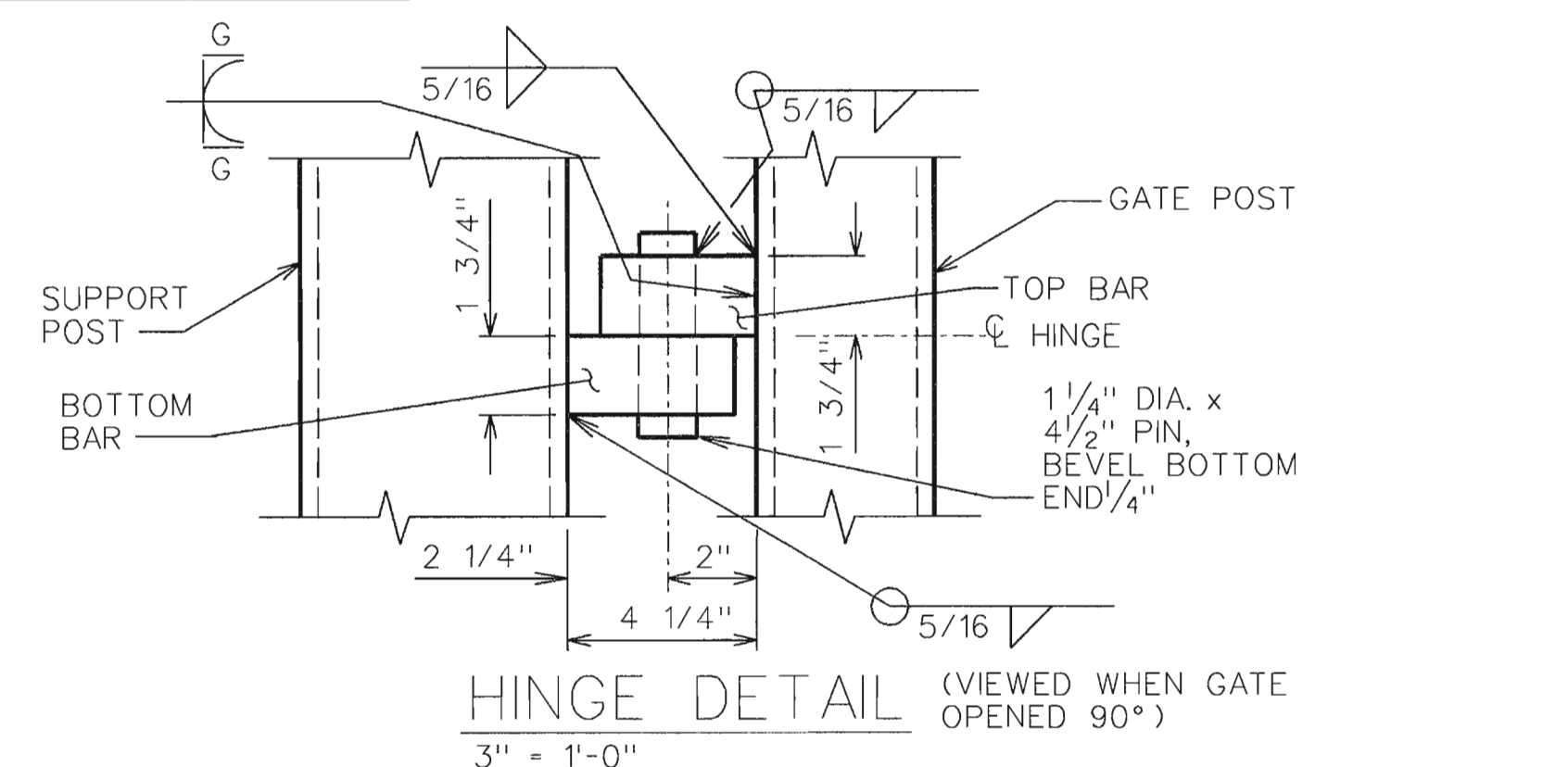


TYPICAL ELEVATION

1/2" = 1'-0"

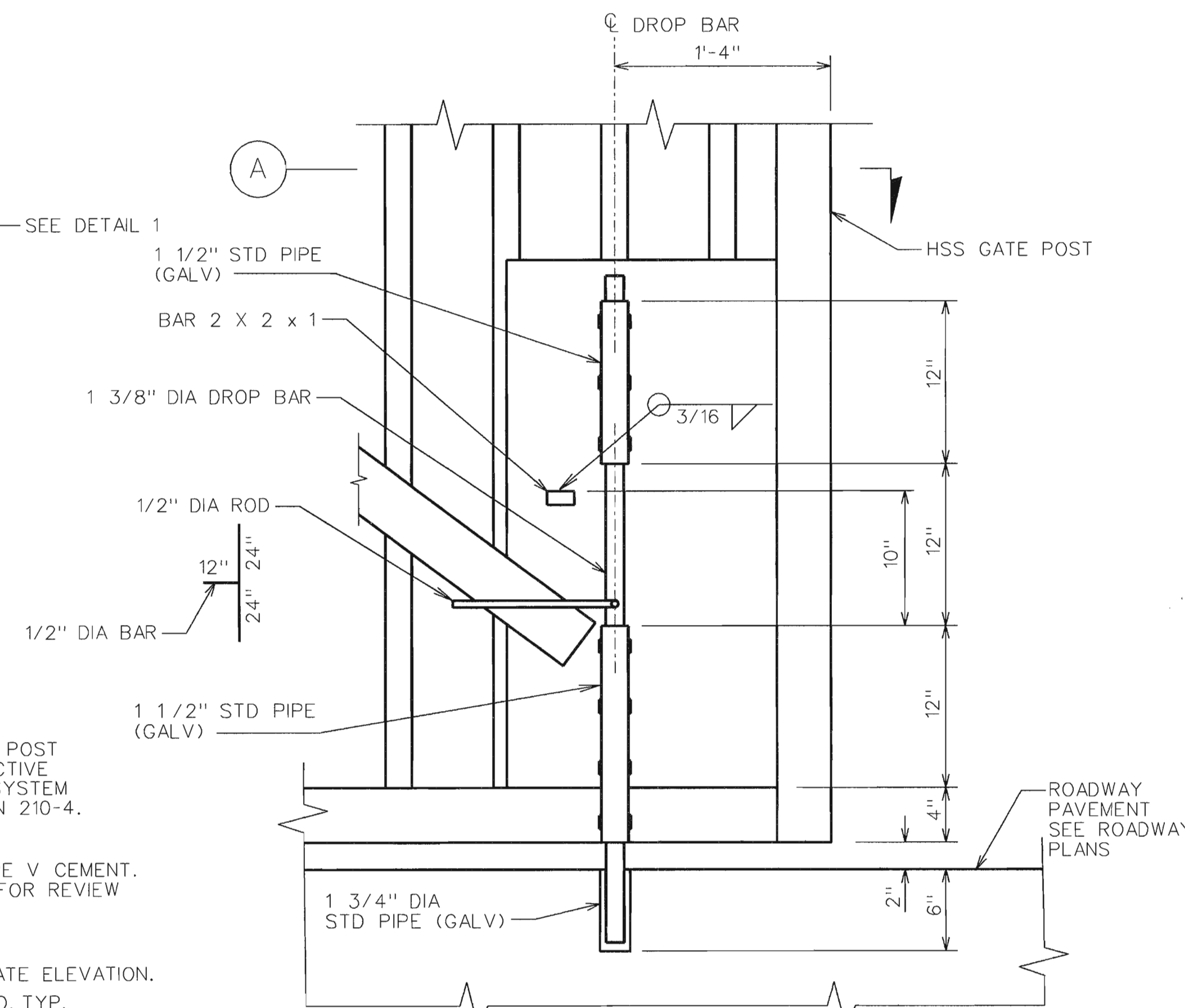
NOTES:

- DESIGN SPECIFICATIONS: "AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 17TH EDITION", 2002. LOAD FACTOR DESIGN METHOD USED.
- LIVE LOAD: STANDARD HS25-44. OVERLOAD DESIGN BASED ON CALIFORNIA "STANDARD PERMIT DESIGN VEHICLES" (MAX ALLOWABLE OVERLOAD: "P13" TRUCK) (FOR PIPE BRIDGE DESIGN).
- WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE GREEN BOOK - STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2006 EDITION, WITH 2008 SUPPLEMENT.
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
HOLLOW STRUCTURAL SECTIONS, HSS (TUBE STEEL): ASTM A500 GRADE B, Fy=46,000 psi
PLATES, BARS, RODS AND PINS: ASTM A36, Fy=36,000 psi
- ALL STRUCTURAL STEEL, PLATES, BARS, RODS, PINS, FENCE MESH, AND PIPE FOR THE GATE AND SUPPORT POST SHALL BE HOT DIPPED GALVANIZED AND PAINTED IN ACCORDANCE WITH SECTION 210, "PAINT AND PROTECTIVE COATINGS" OF THE STANDARD SPECIFICATIONS. COLOR WILL BE DETERMINED BY THE OWNER. THE PAINT SYSTEM SHALL BE CHROMATE CONVERSION FOLLOWED BY A CLEAR ACRYLIC URETHANE COATING AS PER SECTION 210-4.
- ALL OPEN ENDS OF HSS TUBES SHALL BE CLOSED WITH END CAPS.
- ALL CONCRETE FOR THE PIPE BRIDGE SHALL HAVE A MINIMUM 3 DAY STRENGTH OF 4,000 PSI WITH TYPE V CEMENT. CHAMFER ALL EXPOSED EDGES 3/4". THE CONTRACTOR SHALL SUBMIT THE MIX DESIGN TO THE OWNER FOR REVIEW AND APPROVAL.
- REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GRADE 60.
- FOR LOCATION OF GATE AND SUPPORT POSTS SEE ROADWAY DRAWINGS. SEE SHEET 32555-9-D FOR GATE ELEVATION.
- WELD ALL CONNECTING HSS MEMBERS WITH 3/16" FILLET WELD AND/OR FLARE BEVEL WELD ALL AROUND, TYP.
- CONCRETE FOR CIDHP SHALL BE 560-C-3250 (EXCEPT MINIMUM 28 DAY STRENGTH OF 4,000 PSI WITH TYPE V CEMENT, AND SLUMP VALUE WITHIN 5-7 INCHES) PER TABLE 201-1.1.2 (A), CAST-IN-PLACE PILES, OF THE STANDARD SPECIFICATIONS. PLACE CONCRETE WITH TREMIE. SUBMIT THE MIX DESIGN TO THE OWNER FOR REVIEW AND APPROVAL.
- FOUNDATION: PIPE BRIDGE FOOTINGS (BEARING ON A COMPETENT NATIVE MATERIAL COMPACTED TO 95% OF MODIFIED PROCTER, ASTM D-1557) ARE DESIGNED FOR 2500 psf ALLOWABLE SOIL BEARING PRESSURE. GATE POST FOUNDATION IS DESIGNED FOR ULTIMATE PASSIVE RESISTANCE OF 250 psf PER FOOT OF DEPTH. FOUNDATION DESIGNED IS BASED UPON GEOTECHNICAL REPORT PREPARED BY NINYO & MOORE (PROJECT NO. 106055001) DATED JUNE 28, 2007. GEOTECHNICAL ENGINEER OF RECORD (OR OWNER'S REPRESENTATIVE) SHALL VERIFY ADEQUACY OF NATIVE MATERIAL WITH RESPECT TO FOUNDATION DESIGN PARAMETERS PROVIDED.
- CONTRACTOR SHALL REMOVE EXISTING FENCE AS REQUIRED TO FACILITATE CONSTRUCTION AND REPLACE TO MATCH EXISTING. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR OWNER'S REVIEW.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE FOLLOWING IN ACCORDANCE WITH SECTION 2-5.3 OF THE LATEST EDITION OF THE GREEN BOOK FOR OWNER'S REVIEW AND APPROVAL
1. STRUCTURAL STEEL
2. REINFORCEMENT



HINGE DETAIL

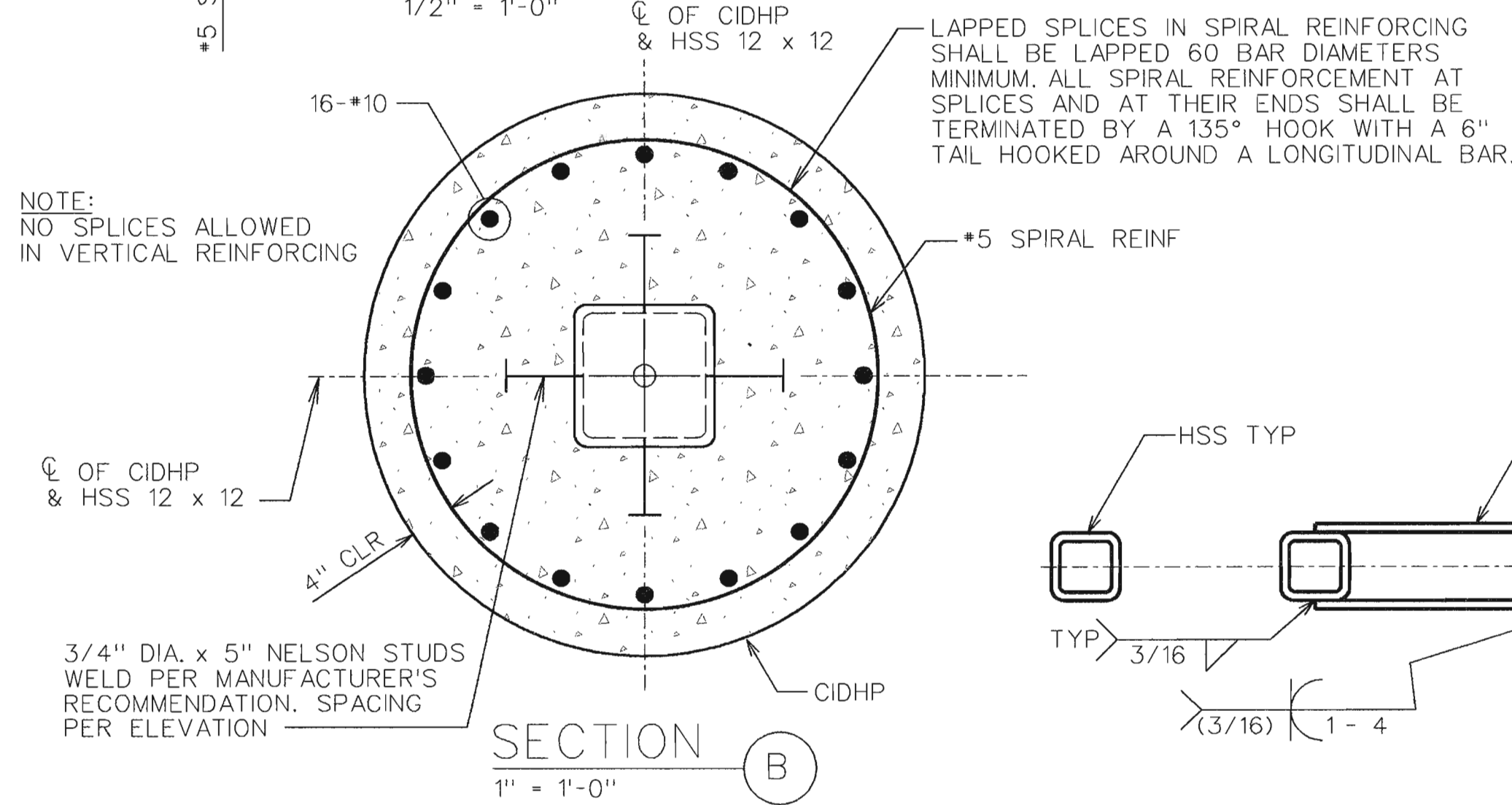
3" = 1'-0"



DETAIL 1

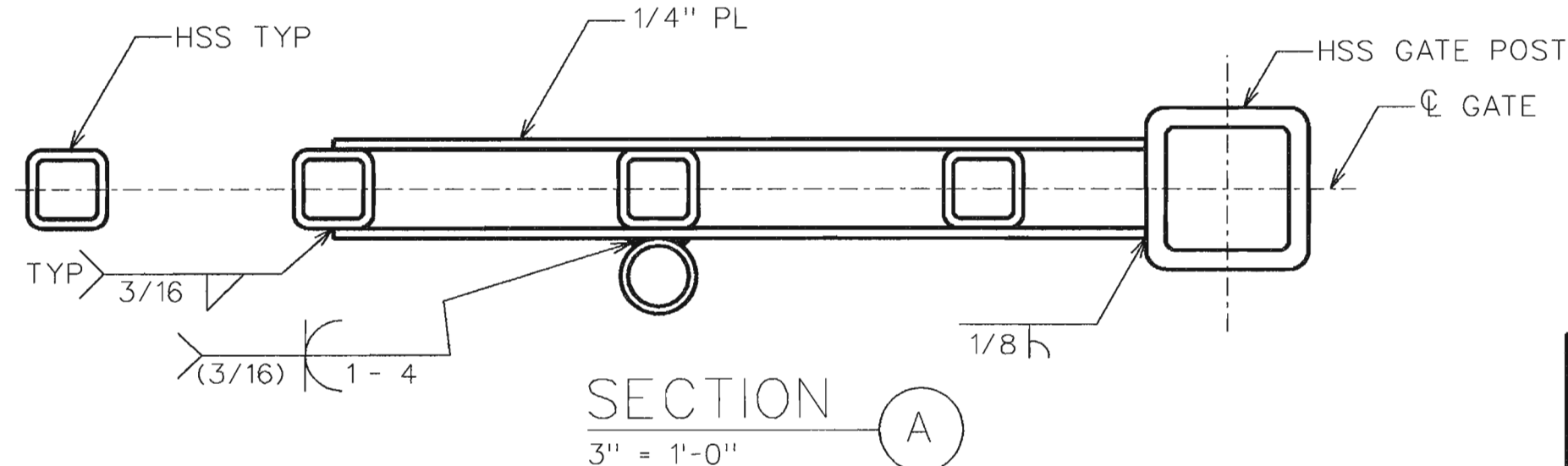
1 1/2" = 1'-0"

SPECIFICATION NO. 4104
CITY CONTRACT, CIP NO. 52-682.0



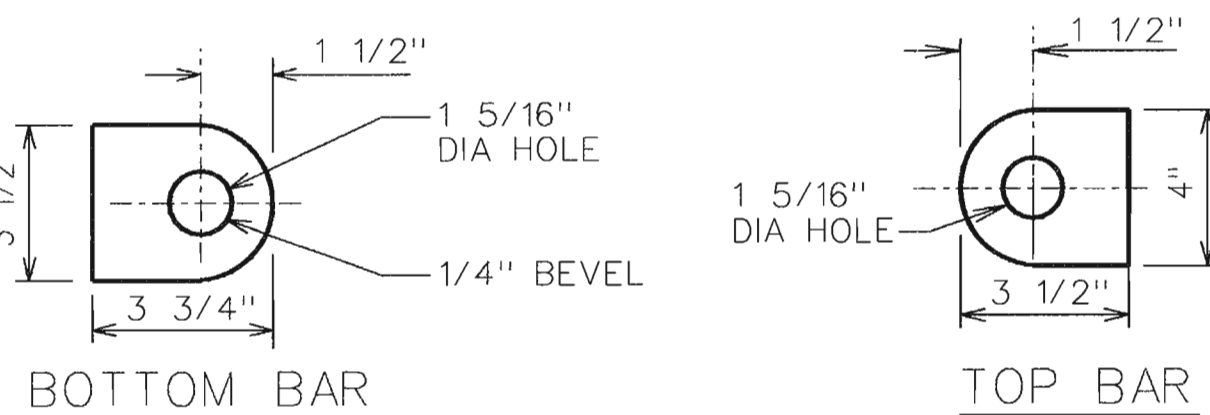
SECTION B

1" = 1'-0"



SECTION A

3" = 1'-0"



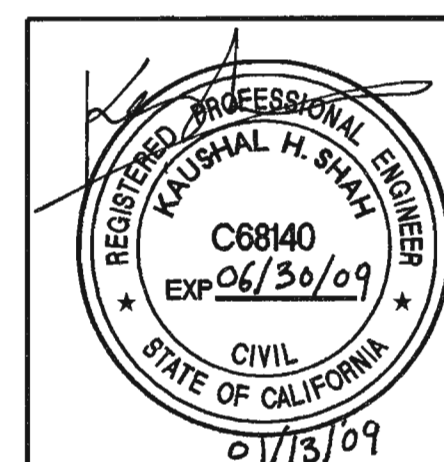
BOTTOM BAR

TOP BAR



THE Louis Berger Group, Inc.
500 E. Amigo Court, Suite 100
Las Vegas, Nevada 89119
Voice: 702-736-6632
Fax: 702-736-0704

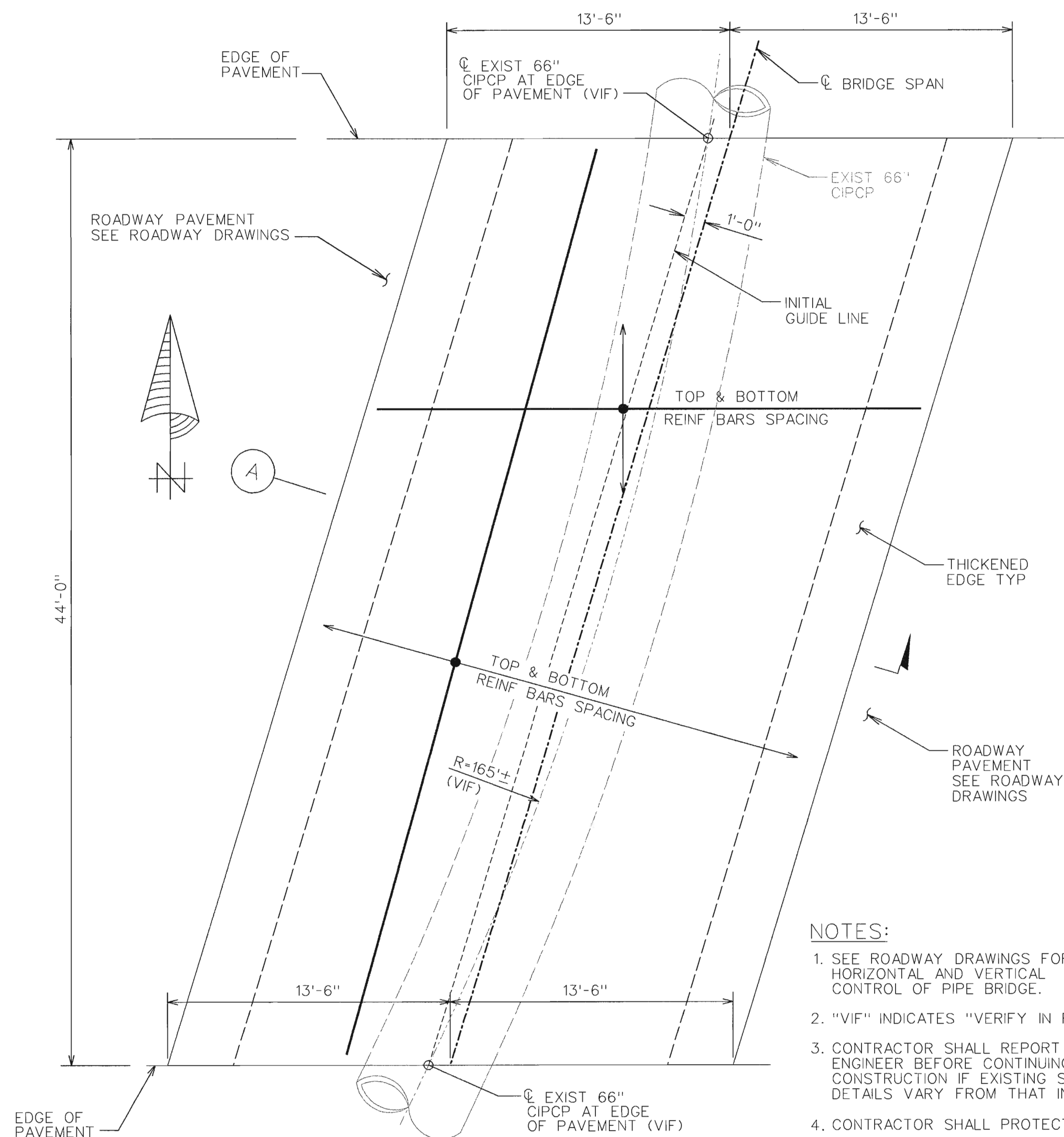
100 E. AMIGO COURT, SUITE 100
LAS VEGAS, NEVADA 89119
VOICE: (702) 736-6632
FAX: (702) 736-0704



CONTRACTOR MUST NOTIFY THE BELOW LISTED AGENCY AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION:

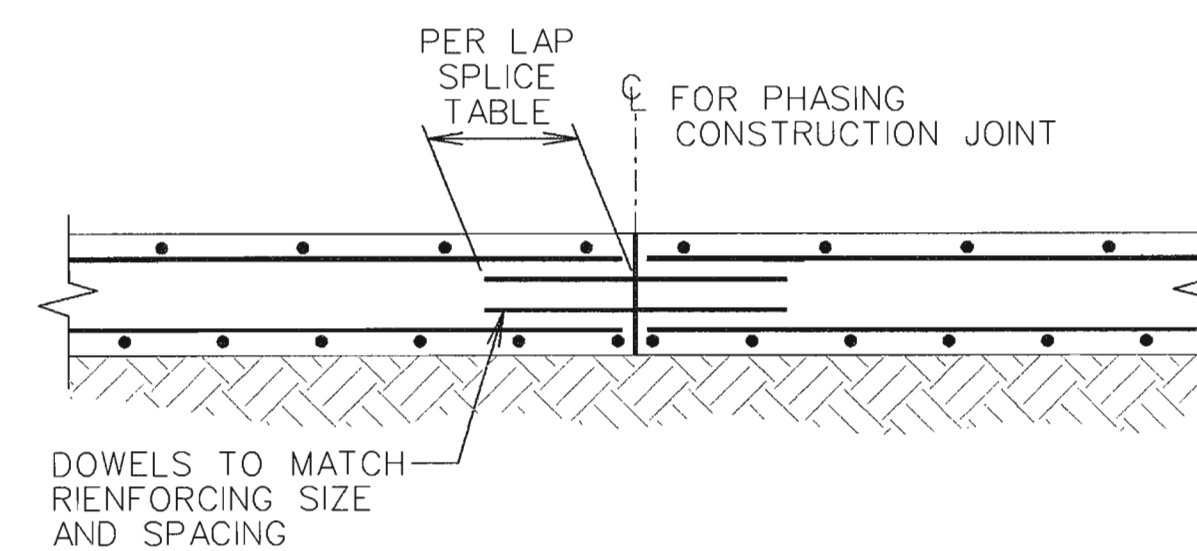
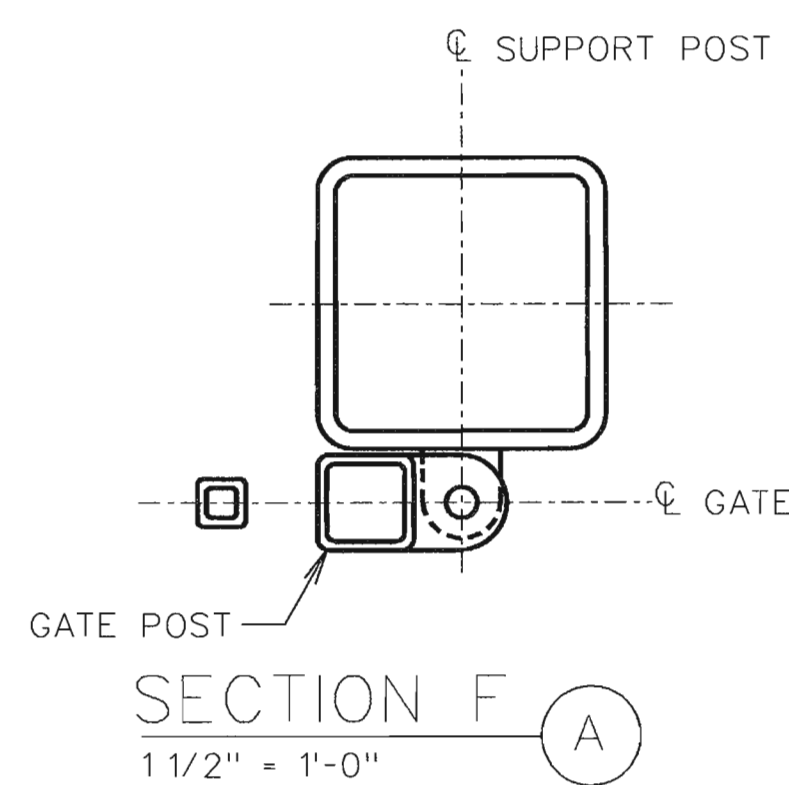
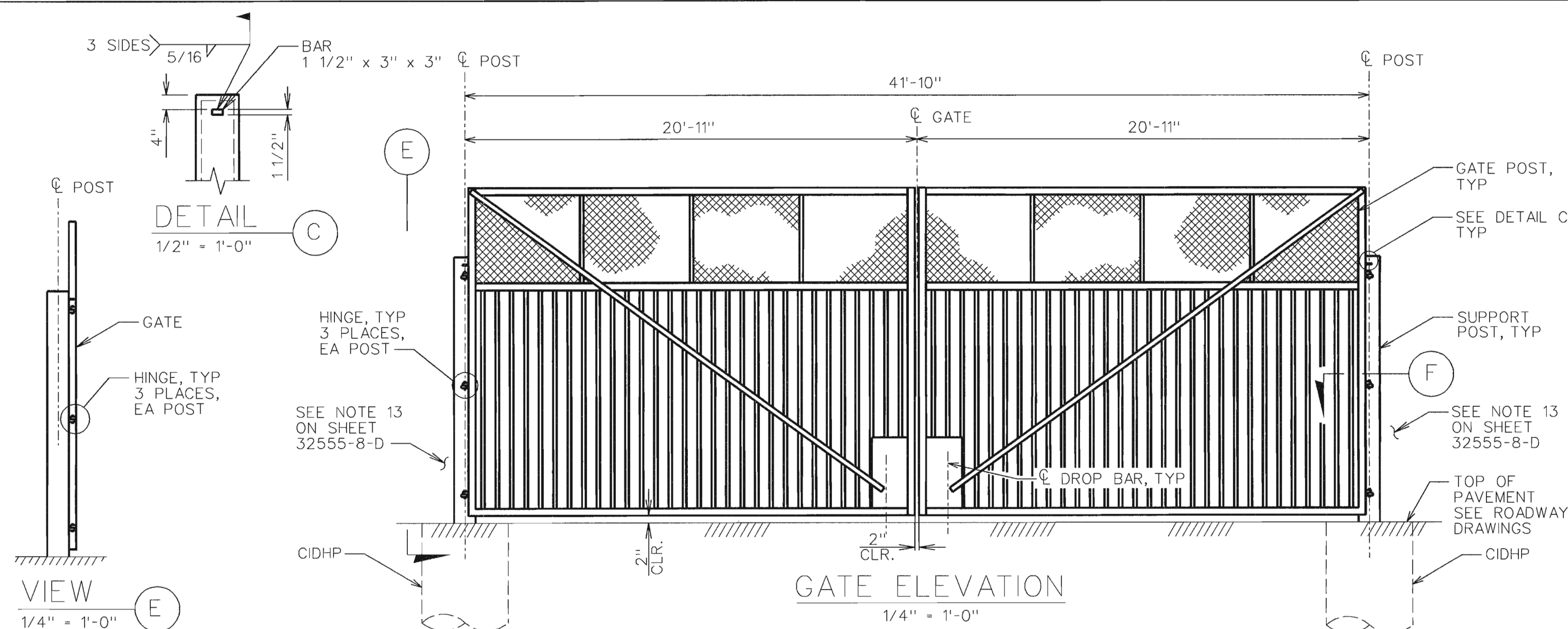
UNDERGROUND SERVICE ALERT (USA) 1-800-422-4133

| PLANS FOR THE CONSTRUCTION OF: | | | | |
|-------------------------------------|-------|----------------|------|---------------------|
| OTAY TRUCK ROUTE WIDENING | | | | |
| FROM DRUCKER LANE TO POINT OF ENTRY | | | | |
| STRUCTURAL DETAILS | | | | |
| CITY OF SAN DIEGO, CALIFORNIA | | | | W.O. NO. 526821 |
| ENGINEERING DEPARTMENT | | | | |
| SHEET 8 OF 12 SHEETS | | | | |
| FOR CITY ENGINEER | | | | DATE |
| DESCRIPTION | BY | APPROVED | DATE | FILMED |
| FILE NAME: | DATE: | | | |
| | | | | |
| | | | | |
| | | | | |
| AS-BUILT | | | | |
| CONTRACTOR | | DATE STARTED | | |
| INSPECTOR | | DATE COMPLETED | | |
| BRAD JOHNSON | | | | SECTION HEAD |
| MIKE ARNOLD | | | | PROJECT MANAGER |
| LOUIS SCHULTZ | | | | PROJECT ENGINEER |
| 138-1785 | | | | LAMBERT COORDINATES |
| 32555-8-D | | | | |



NOTES:

1. SEE ROADWAY DRAWINGS FOR HORIZONTAL AND VERTICAL CONTROL OF PIPE BRIDGE.
2. "VIF" INDICATES "VERIFY IN FIELD".
3. CONTRACTOR SHALL REPORT ANY DISCREPENCIES TO THE ENGINEER BEFORE CONTINUING WITH DEMOLITION OR CONSTRUCTION IF EXISTING STRUCTURAL MEMBERS AND DETAILS VARY FROM THAT INDICATED ON THE DRAWINGS.
4. CONTRACTOR SHALL PROTECT IN PLACE EXISTING 66" DIA. CIPCP.

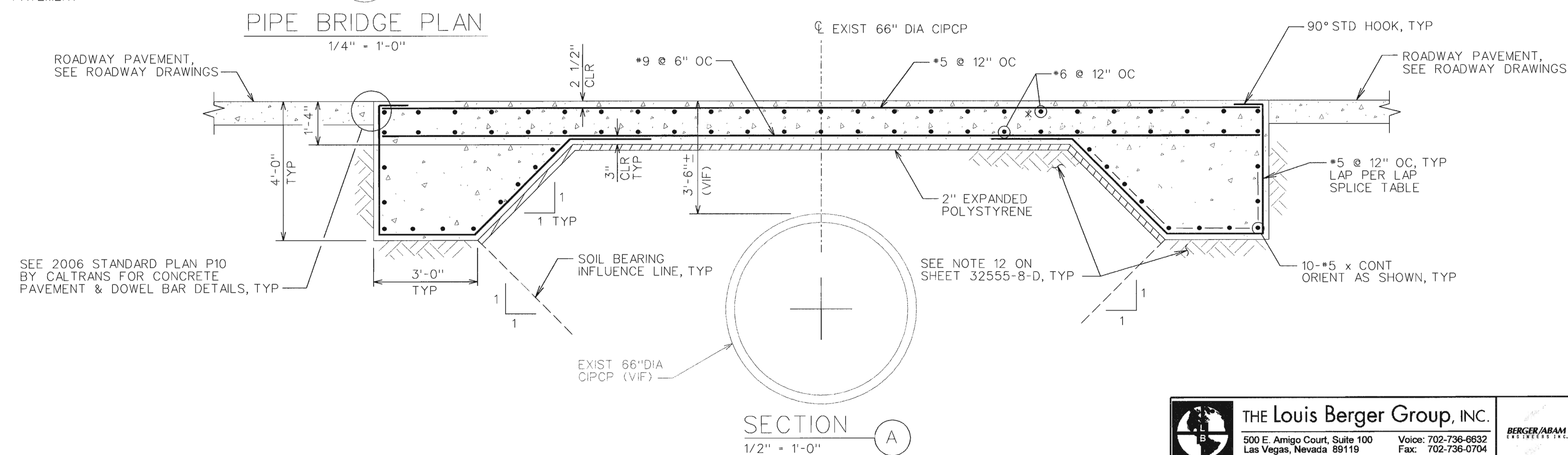


CONSTRUCTION JOINT

LAP SPLICE TABLE

| BAR SIZE | LAP |
|----------|--------|
| #5 | 2'-4" |
| #6 | 2'-9" |
| #9 | 5'-10" |

NOTE
STAGGER ADJACENT LAP
SPICES A MINIMUM OF 2'-0"



SPECIFICATION NO. 4104
CITY CONTRACT, CIP NO. 52-682.0

PLANS FOR THE CONSTRUCTION OF:

OTAY TRUCK ROUTE WIDENING
FROM DRUCKER LANE TO
POINT OF ENTRY
STRUCTURAL DETAILS

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING DEPARTMENT
SHEET 9 OF 12 SHEETS

W.O. 526821

BRAD JOHNSON
SECTION HEAD

MIKE ARNOLD
PROJECT MANAGER

LOUIS SCHULTZ
PROJECT ENGINEER


138-1785
LAMBERT COORDINATES

32555- 9 -

REGISTERED PROFESSIONAL ENGINEER
KAUSHAL M. SHAH
C68140
EXP 06/30/09
CIVIL
STATE OF CALIFORNIA

CONTRACTOR MUST NOTIFY THE
BELOW LISTED AGENCY AT
LEAST TWO (2) WORKING DAYS
PRIOR TO COMMENCEMENT OF
EXCAVATION :

UNDERGROUND SERVICE ALERT
(USA) 1-800-422-4133



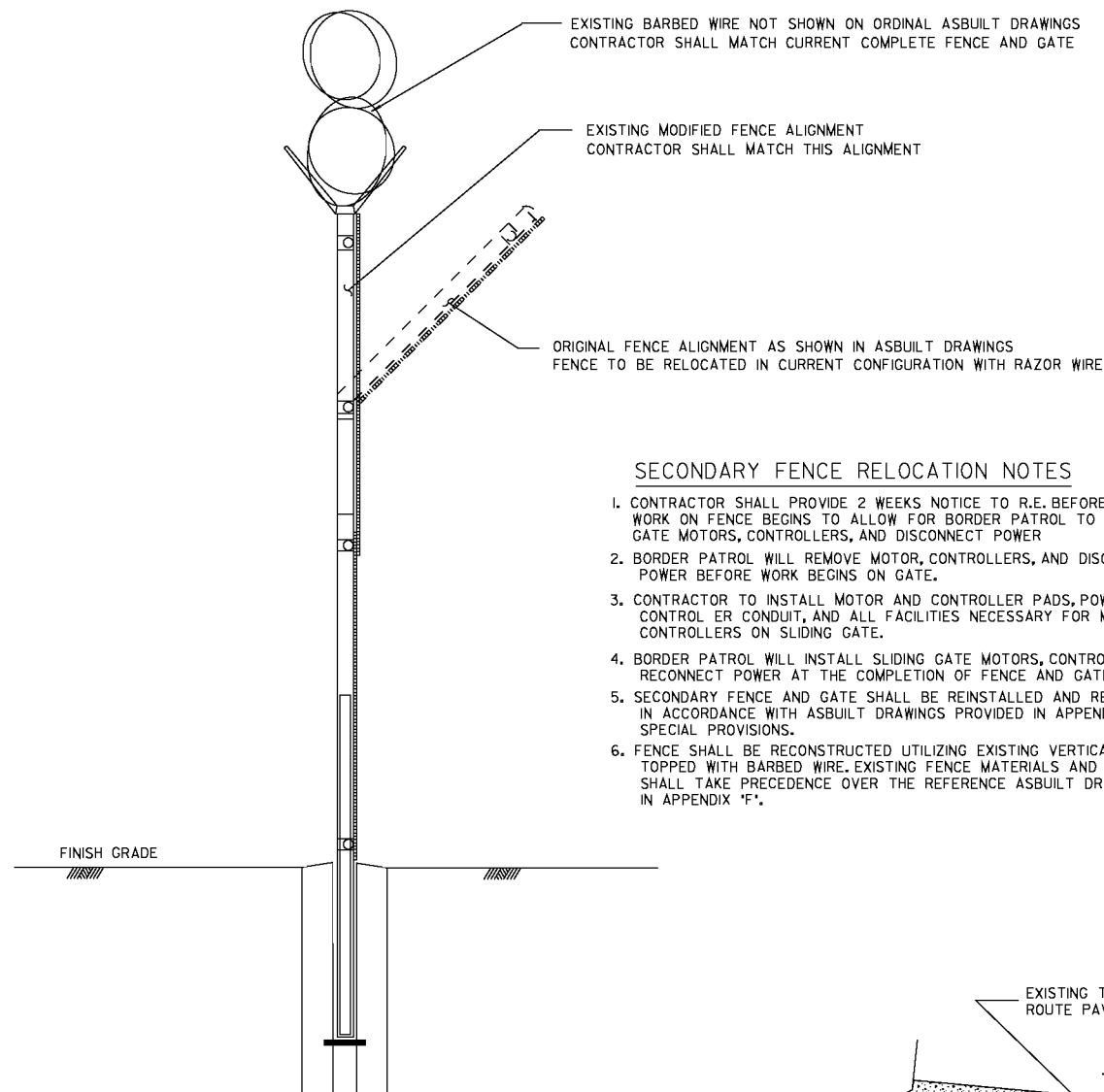
THE Louis Berger Group, INC.

500 E. Amigo Court, Suite 100 Voice: 702-736-6632
 Las Vegas, Nevada 89119 Fax: 702-736-0704

BERGER/ABAM
ENGINEERS INC.

500 E. AMIGO COURT, SUITE
LAS VEGAS, NEVADA
89110
VOICE: (702) 736-6632
FAX: (702) 736-0704

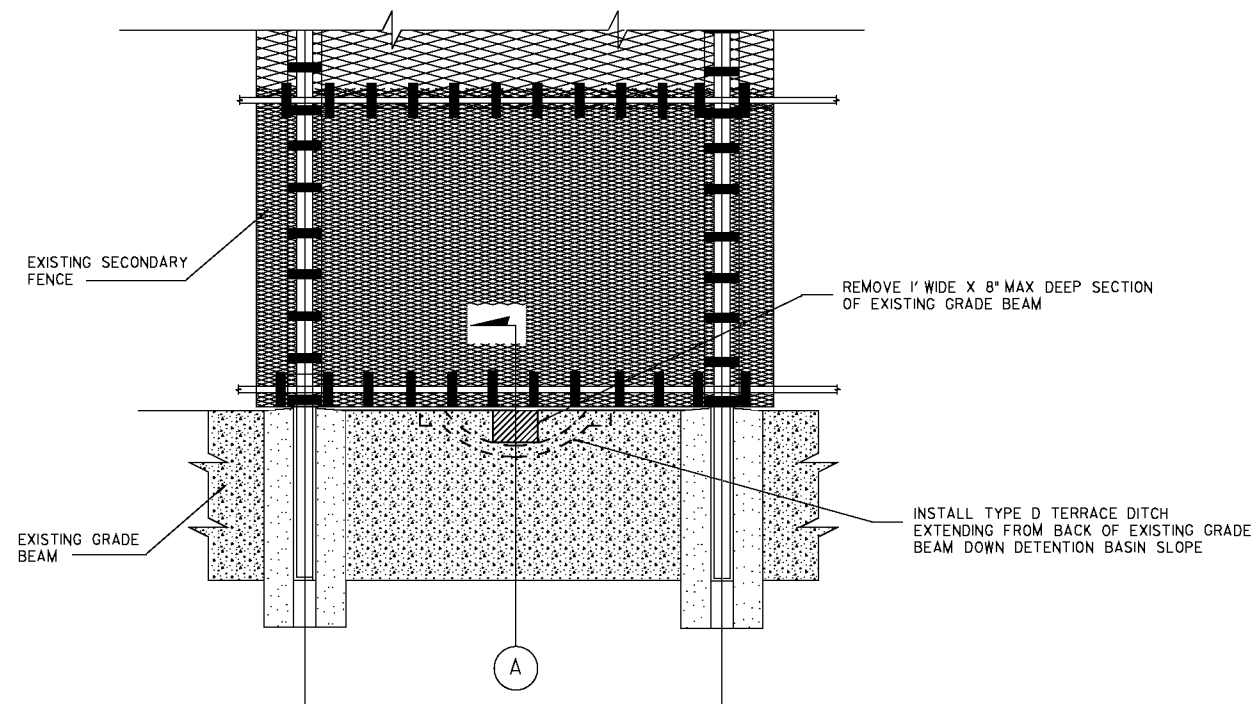
OTAY TRUCK ROUTE



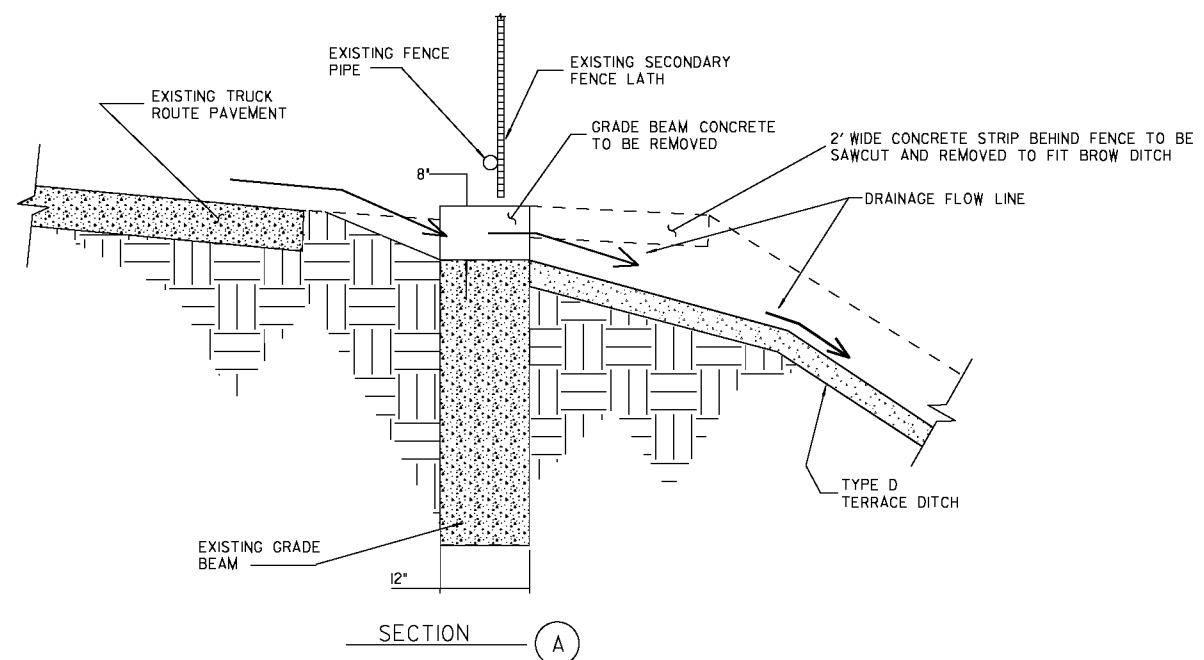
SECONDARY FENCE SECTION

SECONDARY FENCE RELOCATION NOTES

1. CONTRACTOR SHALL PROVIDE 2 WEEKS NOTICE TO R.E. BEFORE WORK ON FENCE BEGINS TO ALLOW FOR BORDER PATROL TO REMOVE GATE MOTORS, CONTROLLERS, AND DISCONNECT POWER
2. BORDER PATROL WILL REMOVE MOTOR, CONTROLLERS, AND DISCONNECT POWER BEFORE WORK BEGINS ON GATE.
3. CONTRACTOR TO INSTALL MOTOR AND CONTROLLER PADS, POWER AND CONTROL ER CONDUIT, AND ALL FACILITIES NECESSARY FOR MOTORS AND CONTROLLERS ON SLIDING GATE.
4. BORDER PATROL WILL INSTALL SLIDING GATE MOTORS, CONTROLLERS, AND RECONNECT POWER AT THE COMPLETION OF FENCE AND GATE RELOCATION
5. SECONDARY FENCE AND GATE SHALL BE REINSTALLED AND RECONSTRUCTED IN ACCORDANCE WITH ASBUILT DRAWINGS PROVIDED IN APPENDIX 'F' OF THE SPECIAL PROVISIONS.
6. FENCE SHALL BE RECONSTRUCTED UTILIZING EXISTING VERTICAL ALIGNMENT TOPPED WITH BARBED WIRE. EXISTING FENCE MATERIALS AND CONSTRUCTION SHALL TAKE PRECEDENCE OVER THE REFERENCE ASBUILT DRAWINGS PROVIDED IN APPENDIX 'F'.



DRAINAGE ACCESS INSTALLATION
UNDER EXISTING SECONDARY FENCE



SPECIFICATION NO. 2002
CITY CONTRACT, CIP NO. 52-682.0

PLANS FOR THE CONSTRUCTION OF:

OTAY TRUCK ROUTE WIDENING
SECONDARY FENCE RELOCATION DETAILS

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING DEPARTMENT
SHEET 10 OF 12 SHEETS

W.D. NO. 526821

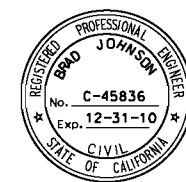
BRAD JOHNSON
SECTION HEAD

MIKE ARNOLD
PROJECT MANAGER

LOUIS SCHULTZ
PROJECT ENGINEER

138-1785
LAMBERT COORDINATES

32555-10-D

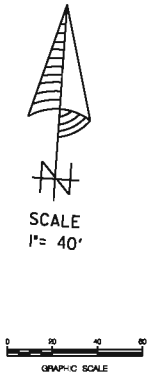
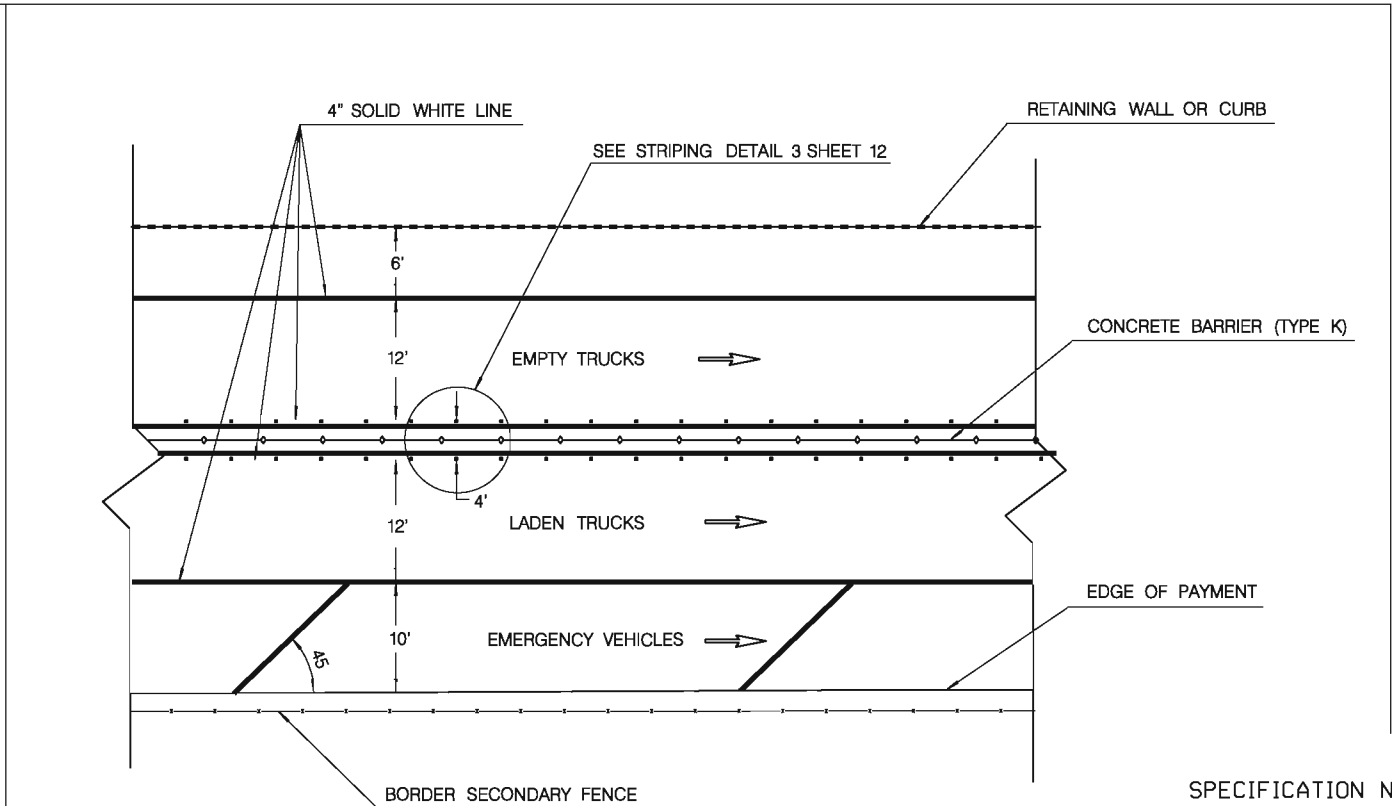
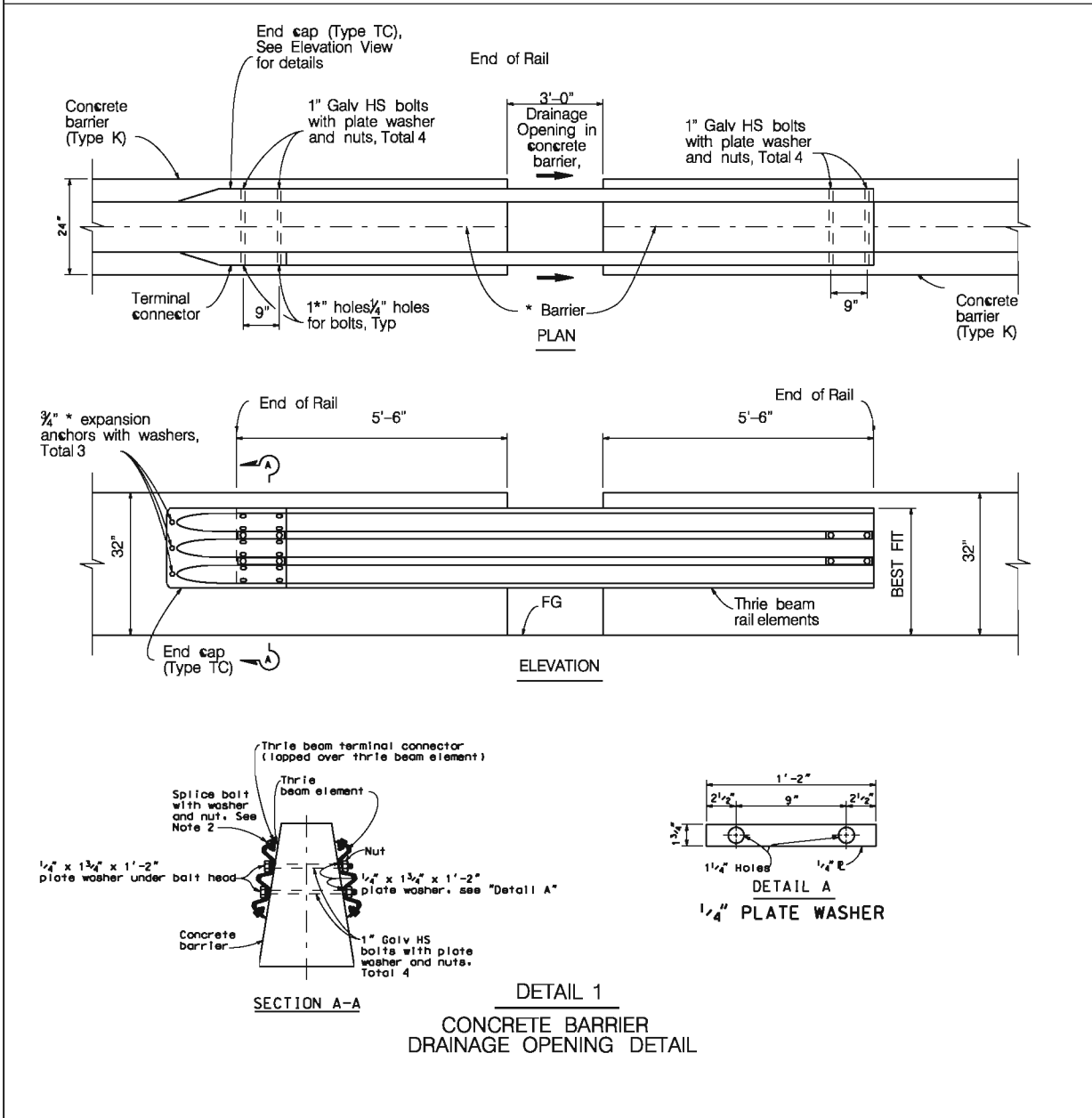
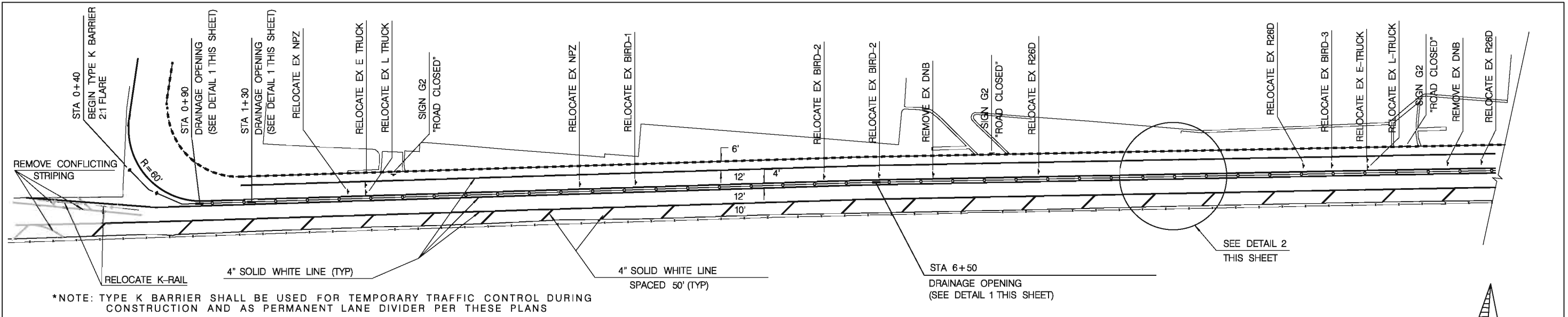


CONTRACTOR MUST NOTIFY THE BELOW LISTED AGENCY AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION :

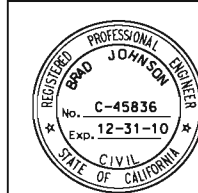
UNDERGROUND SERVICE ALERT
(USA) 1-800-422-4133

| FOR CITY ENGINEER | | DATE | |
|-----------------------|----------------|----------|------|
| DESCRIPTION | BY | APPROVED | DATE |
| FILE NAME: Phase3.dgn | DATE: 8-2-8 | MHC | |
| | | | |
| | | | |
| | | | |
| | | | |
| CONTRACTOR | DATE STARTED | | |
| INSPECTOR | DATE COMPLETED | | |

OTAY TRUCK ROUTE



SPECIFICATION NO. 2002
CITY CONTRACT, CIP NO. 52-682.0



CONTRACTOR MUST NOTIFY THE BELOW LISTED AGENCY AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION :

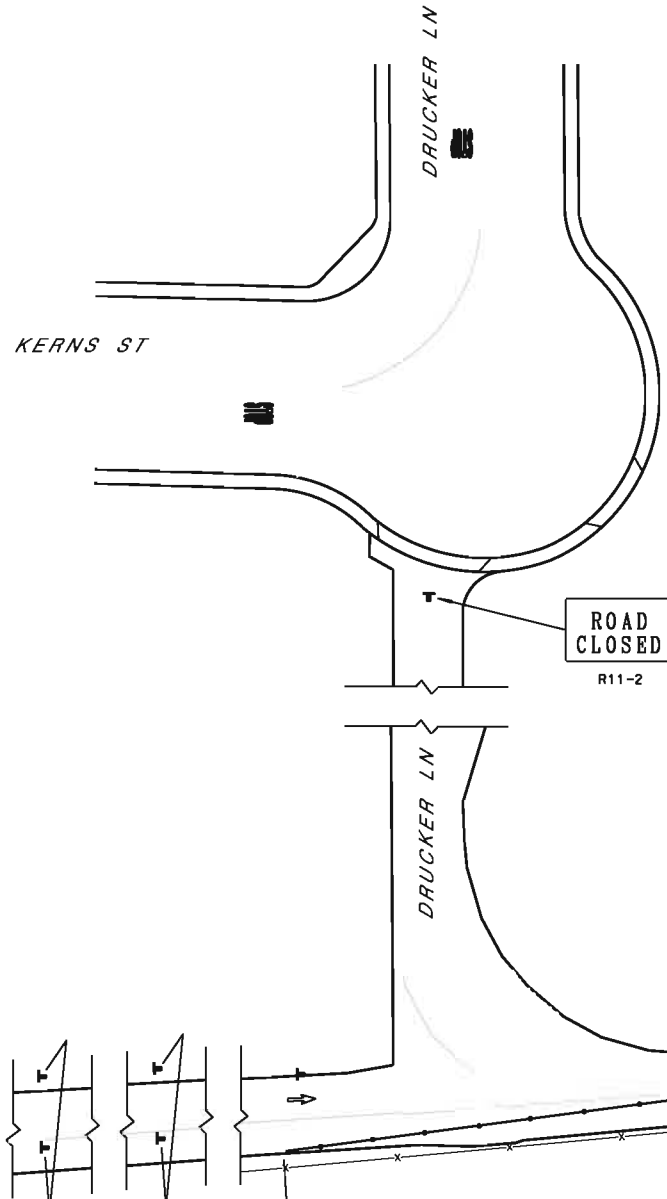
UNDERGROUND SERVICE ALERT
(USA) 1-800-422-4133

| PLANS FOR THE CONSTRUCTION OF: | | | | | |
|---|-------------|----------------|------|------------------------------|-----------------------------------|
| OTAY TRUCK ROUTE WIDENING FROM DRUCKER LANE TO THE POINT OF ENTRY SIGNING STRIPING AND BARRIER PLAN | | | | | |
| CITY OF SAN DIEGO, CALIFORNIA ENGINEERING DEPARTMENT SHEET 11 OF 12 SHEETS | | | | W.O. NO. 526821 | |
| FOR CITY ENGINEER | | | | BRAD JOHNSON SECTION HEAD | |
| DESCRIPTION | BY | APPROVED | DATE | FILMED | MIKE ARNOLD PROJECT MANAGER |
| FILE NAME: Phase3.dgn | DATE: 8-2-8 | MHC | | | LOUIS SCHULTZ PROJECT ENGINEER |
| AS-BUILT | | | | | 138-1785 LAMBERT COORDINATES |
| CONTRACTOR | | DATE STARTED | | 32555-II-D | |
| INSPECTOR | | DATE COMPLETED | | | |

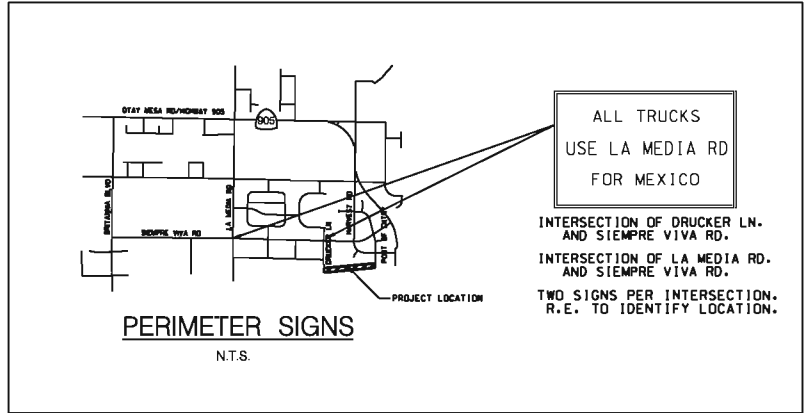
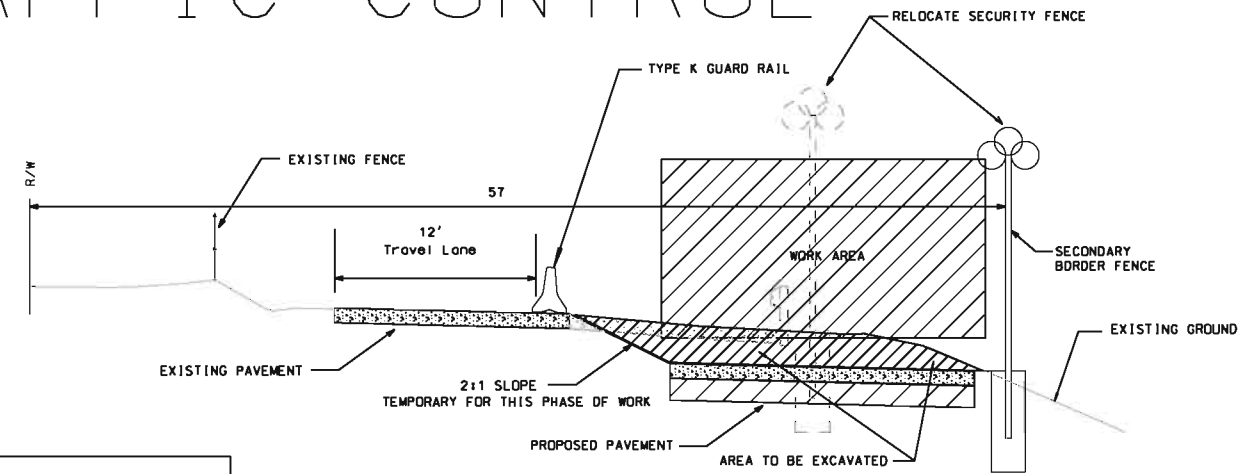
OTAY TRUCK ROUTE

CONSTRUCTION AND TRAFFIC CONTROL

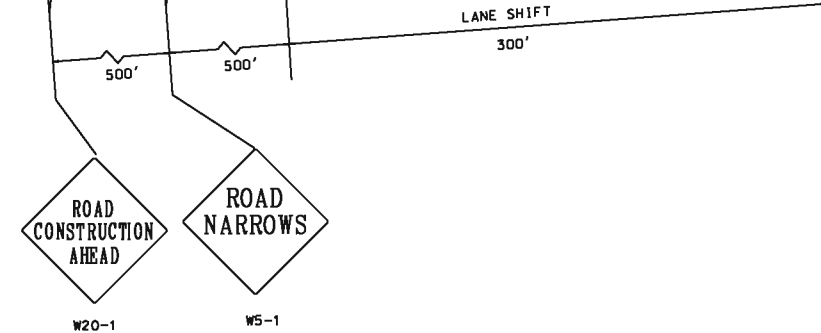
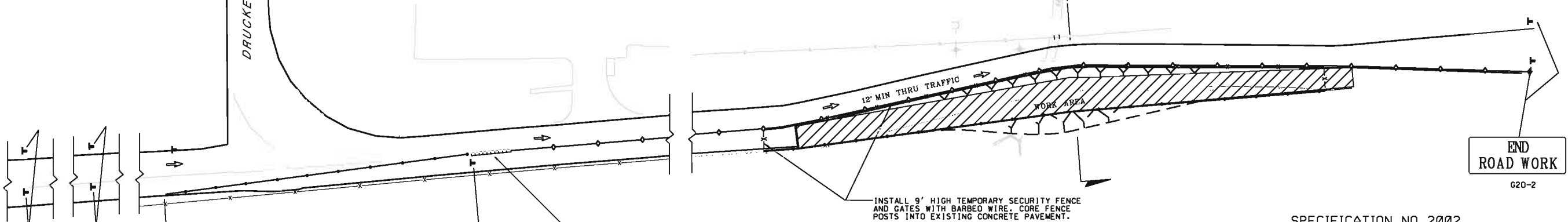
PHASE 1



- MAJOR ITEMS OF WORK:
1. INSTALL TEMPORARY SECURITY FENCE AND GATES BEFORE BEGINNING WORK ON SECONDARY FENCE RELOCATION
 2. RELOCATE SECONDARY FENCE FROM 12+06 TO 15+53.
 3. GRADE AND PAVE SOUTHERLY HALF OF ROADWAY FROM 12+27 TO 15+68. MAINTAIN 12' NORTH LANE FOR TRUCK TRAFFIC. (SEE CROSS SECTION TO RIGHT)



CROSS SECTION A
NO SCALE



CRASH CUSHION (ADJEM)
TO BE RELOCATED TO AT COMPLETION
OF THIS TRAFFIC CONTROL PHASE

*NOTE: TYPE K BARRIER SHALL BE USED FOR TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION AND AS PERMANENT LANE DIVIDER PER THESE PLANS

WORK HOURS
CONTINUOUS SETUP

CITY OF SAN DIEGO
TRAFFIC ENGINEER FOR CITY ENGINEER
DATE:



CONTRACTOR MUST NOTIFY THE BELOW LISTED AGENCY AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION :

UNDERGROUND SERVICE ALERT
(USA) 1-800-422-4133

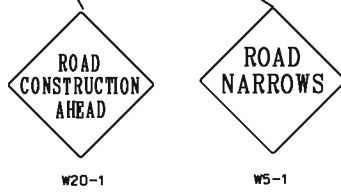
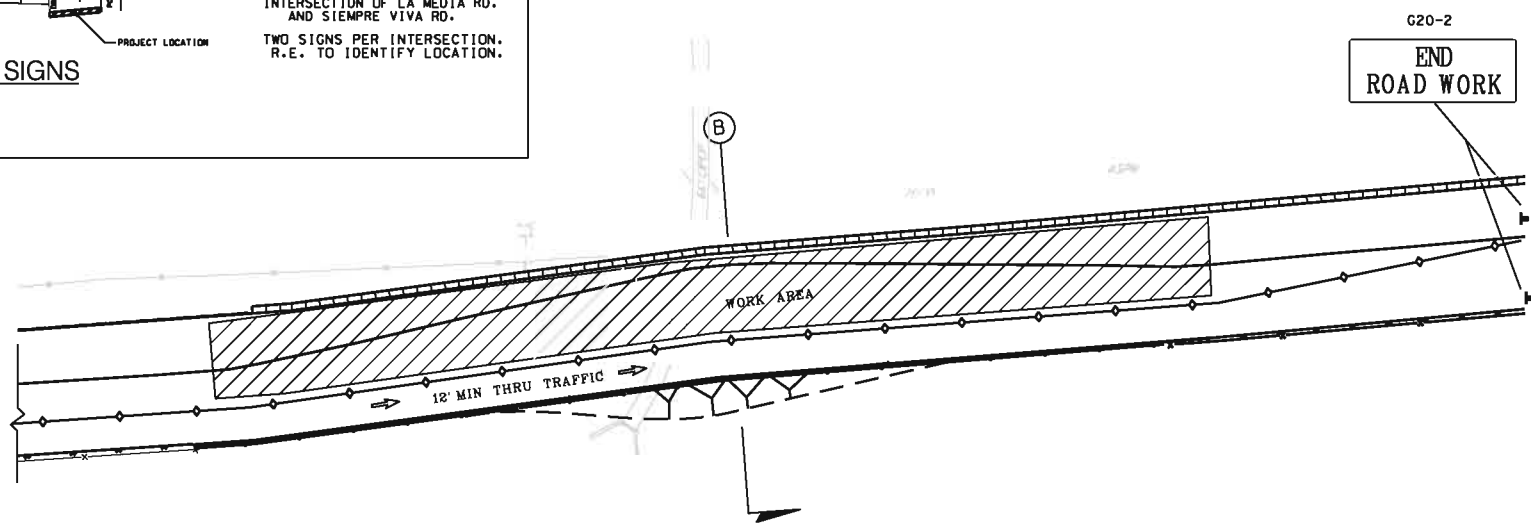
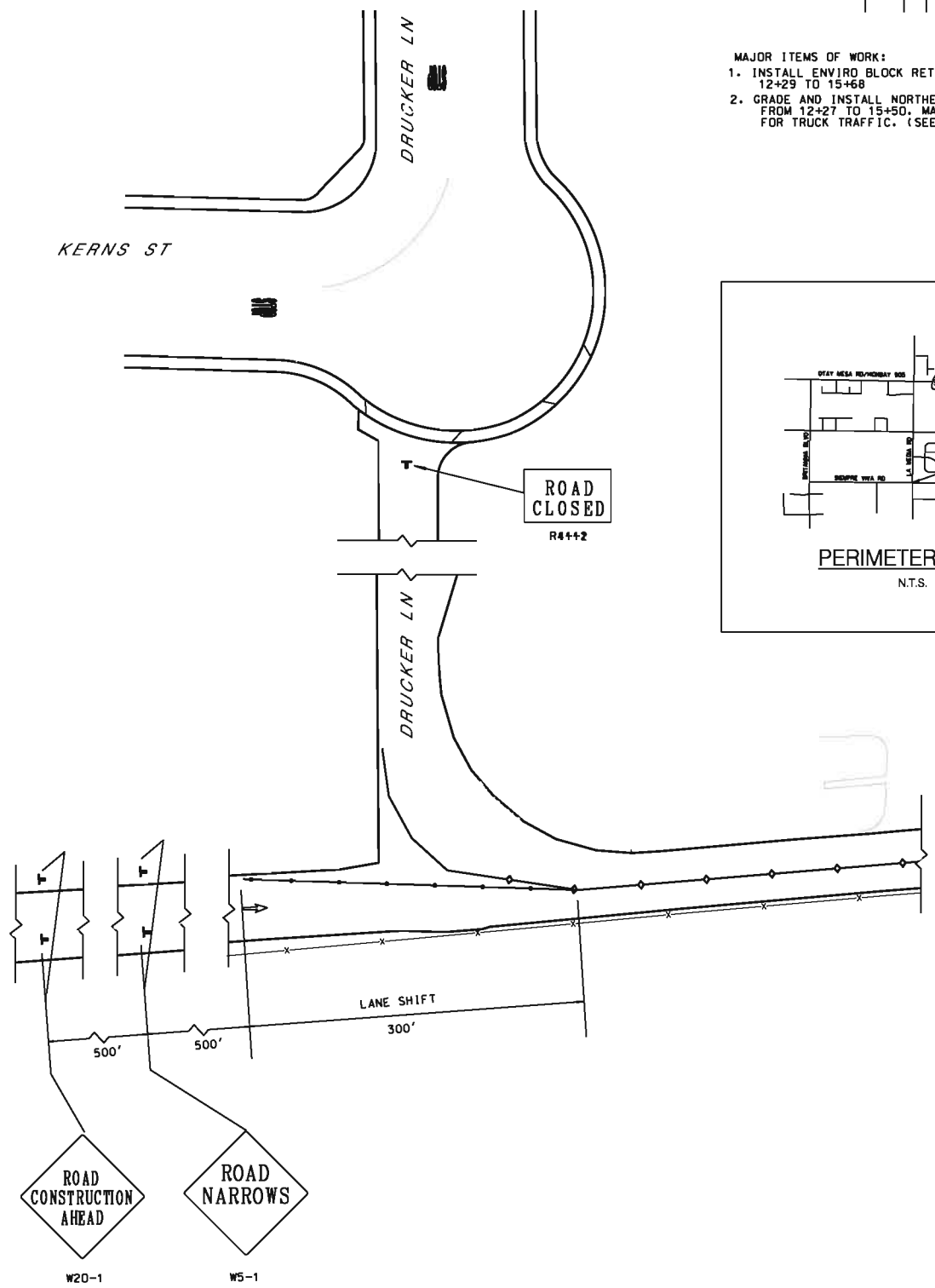
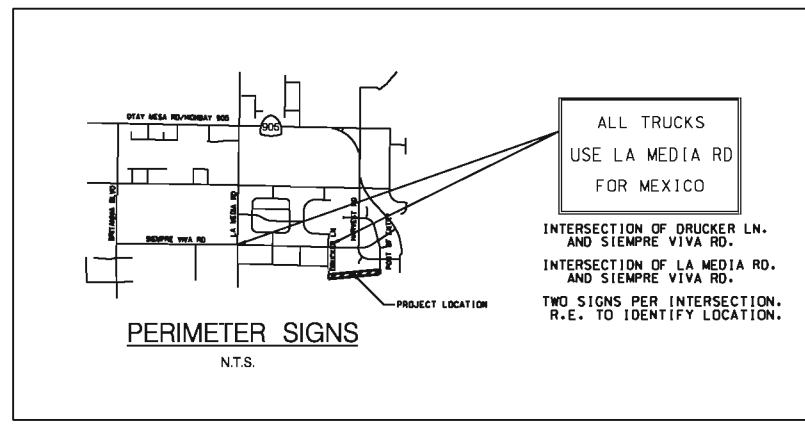
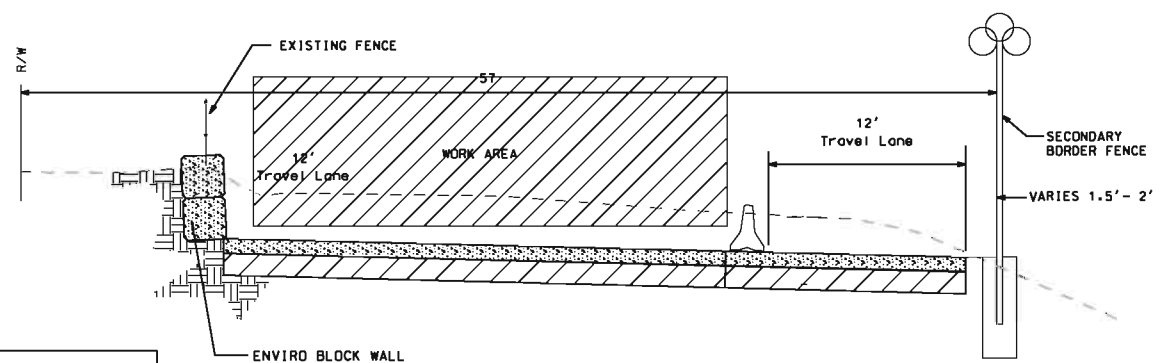
SPECIFICATION NO. 2002
CITY CONTRACT, CIP NO. 52-682.0

| PLANS FOR THE CONSTRUCTION OF: | | | | |
|---|-------------|----------------|------|---|
| OTAY TRUCK ROUTE WIDENING FROM DRUCKER LANE TO THE POINT OF ENTRY TRAFFIC CONTROL PLANS | | | | |
| CITY OF SAN DIEGO, CALIFORNIA ENGINEERING DEPARTMENT SHEET 2 OF 4 SHEETS | | | | W.D. NO. 526821 |
| FOR CITY ENGINEER | | | | BRAD JOHNSON SECTION HEAD |
| DESCRIPTION | BY | APPROVED | DATE | FILMED |
| FILE NAME: Phase 1.dgn | DATE: 8-2-8 | WMC | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| AS-BUILT | | | | |
| CONTRACTOR | | DATE STARTED | | |
| INSPECTOR | | DATE COMPLETED | | |
| | | | | 138-1785 PROJECT ENGINEER LAMBERT COORDINATES 32555-T2-D |

CONSTRUCTION AND TRAFFIC CONTROL

PHASE 2

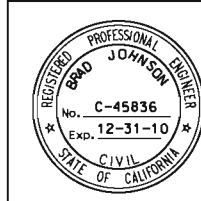
- MAJOR ITEMS OF WORK:
1. INSTALL ENVIRO BLOCK RETAINING WALL FROM 12+29 TO 15+68
 2. GRADE AND INSTALL NORTHERLY PAVEMENT SECTION FROM 12+27 TO 15+50. MAINTAIN 12' SOUTH LANE FOR TRUCK TRAFFIC. (SEE CROSS SECTION TO RIGHT)



*NOTE: TYPE K BARRIER SHALL BE USED FOR TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION AND AS PERMANENT LANE DIVIDER PER THESE PLANS

WORK HOURS
CONTINUOUS SETUP

CITY OF SAN DIEGO
TRAFFIC ENGINEER FOR CITY ENGINEER
DATE:



CONTRACTOR MUST NOTIFY THE BELOW LISTED AGENCY AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION :
UNDERGROUND SERVICE ALERT (USA) 1-800-422-4133

SPECIFICATION NO. 2002
CITY CONTRACT, CIP NO. 52-682.0

| PLANS FOR THE CONSTRUCTION OF: | | | | |
|--|-------------|----------|------|-----------------------------------|
| OTAY TRUCK ROUTE WIDENING FROM DRUCKER LANE TO THE POINT OF ENTRY TRAFFIC CONTROL PLAN | | | | |
| CITY OF SAN DIEGO, CALIFORNIA ENGINEERING DEPARTMENT SHEET 3 OF 4 SHEETS | | | | W.D. NO. 526821 |
| FOR CITY ENGINEER | | | | BRAD JOHNSON SECTION HEAD |
| DESCRIPTION | BY | APPROVED | DATE | FILMED |
| FILE NAME: Phase3.dgn | DATE: 8-2-8 | MHC | | |
| AS-BUILT | | | | MIKE ARNOLD PROJECT MANAGER |
| CONTRACTOR | | | | LOUIS SCHULTZ PROJECT ENGINEER |
| INSPECTOR | | | | 138-1785 LAMBERT COORDINATES |
| DATE STARTED | | | | 32555-T3-D |
| DATE COMPLETED | | | | |

OTAY TRUCK ROUTE

OTAY TRUCK ROUTE



WORK HOURS

CONTINUOUS SETUP

TRAFFIC ENGINEER
FDR CITY ENGINEER

DATE:

REGISTERED PROFESSIONAL ENGINEER
BRAD JOHNSON
No. C-45836
Exp. 12-31-10
CIVIL
STATE OF CALIFORNIA

CONTRACTOR MUST NOTIFY THE
BELOW LISTED AGENCY AT
LEAST TWO (2) WORKING DAYS
PRIOR TO COMMENCEMENT OF
EXCAVATION :

UNDERGROUND SERVICE ALERT
(USA) 1-800-422-4133

SPECIFICATION NO. 2002
CITY CONTRACT, CIP NO. 52-682.0

| |
|--------------------------------|
| PLANS FOR THE CONSTRUCTION OF: |
|--------------------------------|

OTAY TRUCK ROUTE WIDENING
FROM DRUCKER LANE TO THE POINT OF ENTRY
TRAFFIC CONTROL PLAN

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING DEPARTMENT
SHEET 4 OF 4 SHEETS

526821

BRAD JOHNSON
SECTION HEAD

MIKE ARNOLD
PROJECT MANAGER

LOUIS SCHULTZ
PROJECT ENGINEER

138-1785
LAMBERT COORDINATES

32555-T4-D